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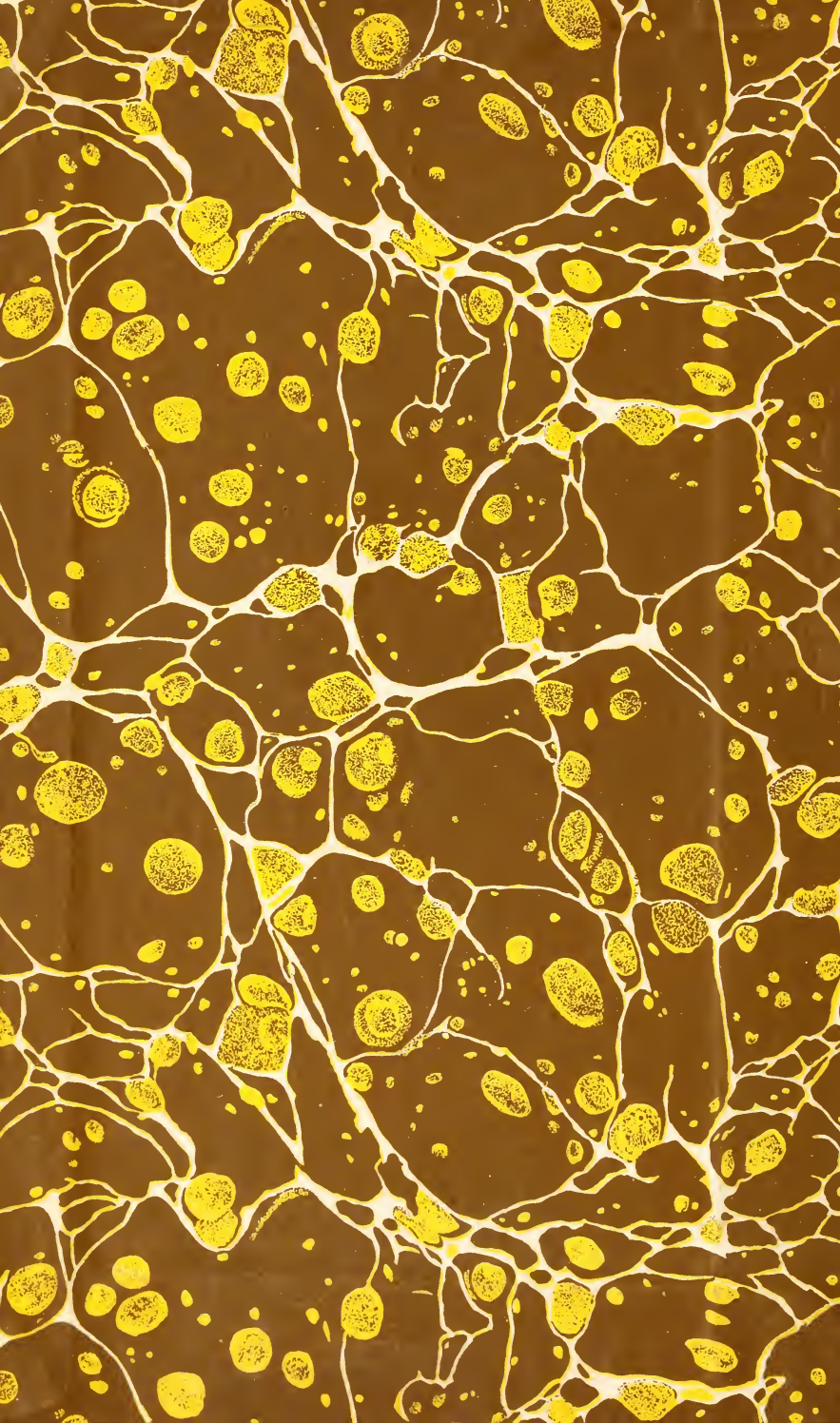
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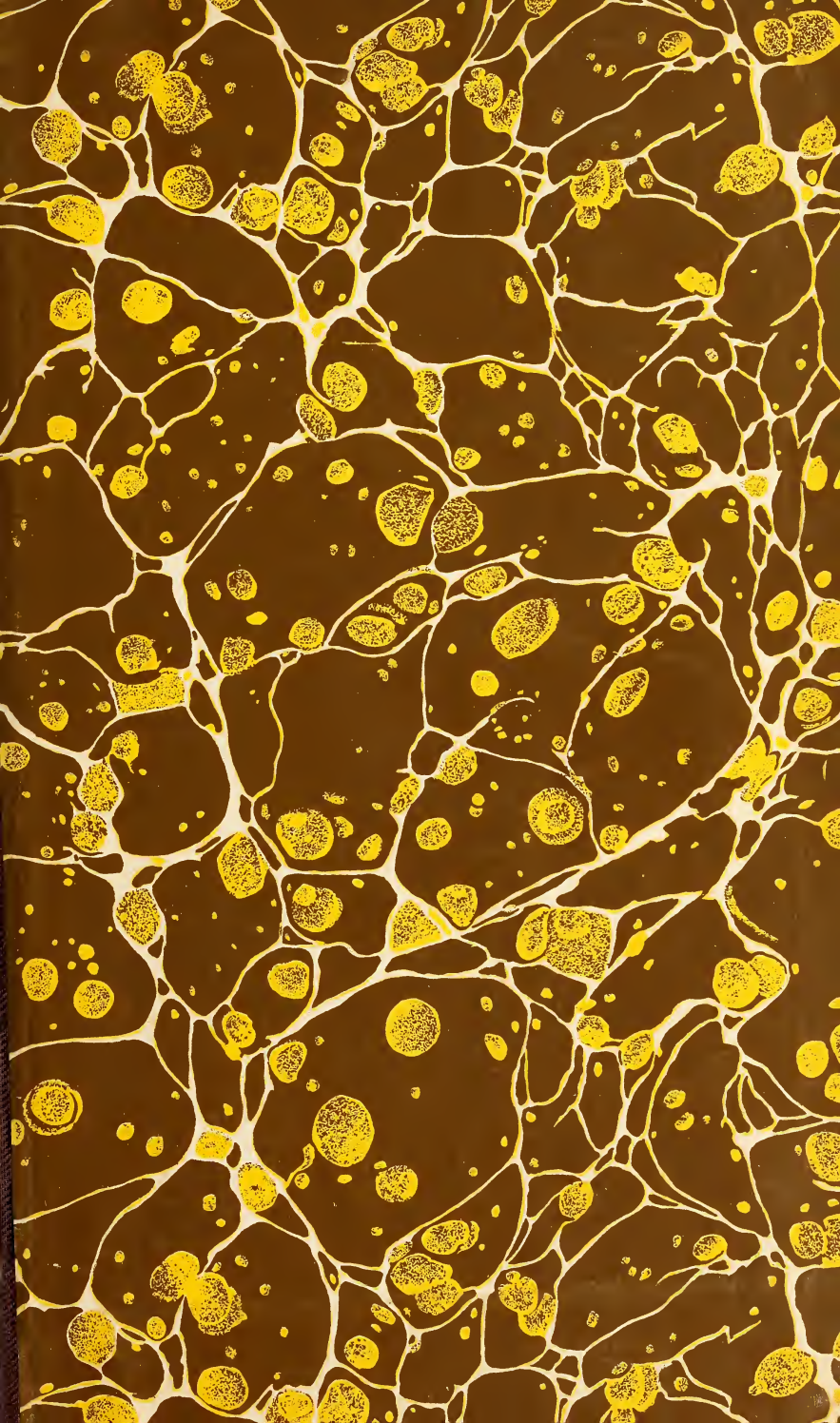
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U. S. DEPARTMENT OF AGRICULTURE.

DIVISION OF STATISTICS.

MISCELLANEOUS SERIES.

REPORT No. 5.

PRODUCTION AND DISTRIBUTION

OF THE

PRINCIPAL AGRICULTURAL PRODUCTS

OF

THE WORLD.

COMPILED FROM OFFICIAL STATISTICS.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

WASHINGTON:
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CONTENTS.

	PAGE.
Table of equivalents.....	4
Letter of submittal.....	5
Explanation of tables.....	7
Population of the world.....	8
Wheat.....	10
Corn.....	14
Rye.....	17
Barley.....	19
Oats.....	21
Potatoes.....	23
Tobacco.....	25
Butter.....	28
Cheese.....	31
Cotton.....	33
Wool.....	36
Flour.....	39
Supply per head.....	41
Europe:	
Austria-Hungary.....	47
Belgium.....	55
Bulgaria.....	59
Denmark.....	62
France.....	66
Germany.....	71
Greece.....	75
Italy.....	76
Norway and Sweden.....	81
The Netherlands.....	88
Portugal.....	91
Roumania.....	94
Russia and Poland.....	98
Servia.....	105
Spain.....	107
Switzerland.....	109
United Kingdom.....	111
British Possessions.....	116
Asia:	
British India.....	120
China.....	123
Corea.....	123
Japan.....	124
British Possessions.....	127
Dutch Possessions.....	129
French Possessions.....	131
Africa:	
Egypt.....	135
British Possessions.....	136
French Possessions.....	139
North America:	
Canada.....	144
Mexico.....	149
United States.....	150
South America:	
Argentine Republic.....	160
Chile.....	162
Paraguay.....	165
Uruguay.....	166
American Islands and Colonies:	
British Possessions.....	168
Dutch Possessions.....	175
French Possessions.....	176
Australasia.....	180
Islands of the sea:	
British Possessions.....	203
French Possessions.....	204

EQUIVALENTS USED IN REDUCTION OF FOREIGN WEIGHTS AND MEASURES.

GENERAL.	
Imperial bushel=	1.03152 Winchester bushel.
Hectoliter.....	2.8375 Winchester bushels.
Hundredweight=	112 pounds.
Ton.....=2,	240 pounds.
Cental.....=	100 pounds.
Picul.....=	133½ pounds.
Kilogram.....=	2.2046 pounds.
Quintal.....=	220.46 pounds.
Metric ton.....=2,	204.6 pounds.
Hectare.....=	2.471 acres.

SPECIAL.	
Bulgaria:	
Oka.....=	2.8188 pounds.
Denmark:	
Tonde(land)=	1.3631 acres.
Tonde (ca-	
pacity)=	3.948 bushels.
Pund.....=	1.1023 pounds.
Greece:	
Oke.....=	2.822 pounds.
Sweden:	
Tunnor....=2,	204.6 pounds.

SPECIAL—continued.	
Russia:	
Chetvert.....=	5.956 bushels.
Pood.....=	36.113 pounds.
Cyprus:	
Oke.....=	2.822 pounds.
Kile.....=	56 pounds.
Malta:	
Quarter.....=	8.25216 bushels.
Japan:	
Square tcho...=	2.4507 acres.
Kokou.....=	5.1193 bushels.
Kwan.....=	8.2817 pounds.
Catty.....=	1½ pound.
Java and Sumatra:	
Bouw.....=	1.7535 acres.
Egypt:	
Ardeb.....=	.99689 pound.
Cantar.....=	99.68953 pounds.
Oka.....=	2.7247 pounds.
Natal:	
Quarter.....=	8.25216 bushels.
Muid.....=	3.06567 bushels.

EQUIVALENTS USED IN THE REDUCTION OF FOREIGN MONEY.

GENERAL.	
Pounds sterling.....=	\$4.8665
Franc.....=	0.193
Gulden.....=	0.402
Florin.....=	0.402
Kronor.....=	0.268
Mark.....=	0.238
Lire.....=	0.193
Milreis.....=	1.08

SPECIAL.	
Austria-Hungary:	
Gulden:	
1880=\$0.4092	1886= 0.3553
1881= 0.4067	1887= 0.3495
1882= 0.4057	1888= 0.3357
1883= 0.3964	1889= 0.3343
1884= 0.3974	1890= 0.3739
1885= 0.3803	
Russia:	
Rouble:	
1880= 0.506056	1886= 0.456163
1881= 0.508998	1887= 0.432159
1882= 0.487864	1888= 0.446129
1883= 0.478419	1889= 0.521230
1884= 0.488948	1890= 0.521230
1885= 0.490960	
Servia:	
Dinar.....=	0.193
Spain:	
Peseta.....=	0.193
British India:	
Rupee:	
1881= 0.39	1886= 0.357
1882= 0.39	1887= 0.346
1883= 0.386	1888= 0.332
1884= 0.383	1889= 0.323
1885= 0.378	1890= 0.332
China:	
H. Tael:	
1887= 1.20	1889= 1.15
1888= 1.15	1890= 1.27
Corea:	
Dollar:	
1885= 0.864	1888= 0.759
1886= 0.816	1889= 0.739
1887= 0.790	1890= 0.753

SPECIAL—continued.	
Japan:	
Yen:	
1881=\$0.888	1886=\$0.810
1882= 0.887	1887= 0.784
1883= 0.876	1888= 0.753
1884= 0.869	1889= 0.734
1885= 0.858	1890= 0.752
Ceylon:	
Rupee:	
1882= 0.456	1885= 0.365
1883= 0.456	1886= 0.365
1884= 0.456	1887= 0.345
Penang and Malacca:	
Dollar:	
1880= 0.912	1884= 0.871
1881= 0.912	1885= 0.841
1882= 0.871	1886= 0.780
1883= 0.871	1887= 0.780
Annam and Cambodia, Tonkin and Cochinchina:	
Piastre.....=	0.68
Egypt:	
Pound Egyptian.....=	4.943
Mauritius:	
Rupee.....=	0.4866
Canada:	
Dollar.....=	1.00
Mexico:	
Peso:	
1884= 0.875	1888= 0.759
1885= 0.864	1889= 0.739
1886= 0.816	1890= 0.758
1887= 0.790	
Newfoundland:	
Dollar.....=	1.014
Argentine Republic:	
Peso.....=	0.965
Chile:	
Peso.....=	0.912
Uruguay:	
Peso:	
1880= 0.836	1886= 0.751
1881= 0.823	1887= 0.727
1882= 0.823	1888= 0.699
1883= 0.812	1889= 0.680
1884= 0.806	1890= 0.693
1885= 0.795	

LETTER OF SUBMITTAL.

U. S. DEPARTMENT OF AGRICULTURE,
DIVISION OF STATISTICS,

Washington, D. C., February 7, 1893.

SIR: I respectfully submit for publication a collaboration of official statistics of all countries in the world, so far as obtainable by the most diligent research, relating to the production and distribution of the principal products of agriculture. The Statistician, in 1873 and 1887, made two investigations of statistical methods and material of the principal countries of Europe, and arranged for general exchange of current publications and also collections of earlier statistical issues. Effort has been unremitting for years to establish exchange relations with the Australasian colonies, the South American States, and all other countries that have in operation any system for collecting agricultural or trade statistics. With these facilities at hand, and a pressing need existing for something more comprehensive and consecutive than the fragmentary and desultory republication of official and other statistics in the commercial and news journals of the times, it was deemed a matter of supreme statistical importance to collate, translate, coördinate, and arrange the data of recent years, that some more definite idea of national supply and consumption could be obtained to relieve the confusion existing among agricultural and commercial writers on these points.

The difficulty and magnitude of this work can scarcely be exaggerated. It involves translation from many languages, reduction of weights and measures nearly as numerous as the countries represented, the collection of consecutive annual statements for a period of ten years, the ascertaining of the average population of each country for the period, and orderly arrangement of hundreds of separate tables, primarily between 1,000 and 2,000. All the clerical force available, in a body of sixty clerks, after the routine and other special work had been provided for, has been employed for months, and sometimes extra service, both by day and night, has been required and cheerfully rendered. The patience and assiduity of the clerks is entitled to especial commendation and is worthy of all praise. The whole work has been under the immediate supervision of the Assistant Statistician, Mr. B. W. Snow, who has been untiring and successful in eliminating its difficulties and presenting systematically its results.

There are ninety-two countries represented in this work, and ten consecutive years, wherever annual statistics are available. The fluctuations of annual production, both in area and rate of yield and in trade requirements, are constantly confusing the minds of readers

of agricultural statistics, being so wide and abrupt as to render the record of a single year in any country nearly useless for practical deduction. This fact enforces the necessity of a systematic average of a series of years, which with few exceptions has not heretofore been found in the statistical records of any country, and never has there been so comprehensive and complete a collection as to extent of geographical area represented and continuity of annual statements. In this compilation there are necessarily gaps in the annual series, many countries failing to make yearly enumerations of products, and in others the requisite trade records have not been published. There is still much incompleteness in such statistics, and though remedial effort is progressing and effective, a state of general efficiency can scarcely be attained for many years. The International Statistical Institute, in its personnel and in its initiatory work of half a dozen years, promises to prove an effective stimulus to original and uniform effort in the line of official national statistics, rendering possible their coördination in international tabulations.

As this work includes only official statistics, except incidentally in the brief analysis of results, its purpose is mainly to give comprehensiveness and lucidity to the disjointed and chaotic mass of such data. It aims to reduce to order and harmony the most valuable official statistics of agricultural exploitation, and confines within narrow limits the commercial quest for normal production of those countries which have no records of production and few if any available facts of distribution. It is a long step in the progress of inquiry as to the actual supply and consumption of each individual country, revealing peculiarities of agricultural possibility, adaptations of climate and soil to the healthful growth of different plants, dietetic tastes and habits of different nations, and many adventitious conditions controlling the development of rural industries and the distribution of their products.

It will be found more useful to the intelligent student of statistics, who desires reliable aid in marshaling the authorized data accessible, than to the superficial inquirer who wants everything, known and unknown, approximate and apochryphal, in one ultimate dictum of authority, which can be quoted and sworn to for personal uses.

Great care has been taken to secure accuracy. The original figures have been carefully compared, the reductions done in duplicate, and all discrepancies harmonized, and every step in the progress of the work subjected to scrutiny and revision. It is hoped that no serious errors have crept in. It is, perhaps, too much to expect that no minor lapses have occurred. It is presented to the public in full confidence of its appreciation of the effort to explore new fields in statistics and utilize more fully and practically the current data of national statistical investigation.

Respectfully,
Hon. J. M. RUSK,
Secretary.

J. R. DODGE,
Statistician.

PRODUCTION AND DISTRIBUTION OF THE PRINCIPAL AGRICULTURAL PRODUCTS OF THE WORLD.

EXPLANATION OF TABLES.

The tables presented in this report may be grouped under three heads: (1) A general presentation of the production, imports, and exports, of the various countries for which data are available, of the products considered in the report; (2) a summary, so far as such a summarization is possible, of the net supply of each product available in the various countries; (3) a detailed statement of the production, imports, and exports of each product, for a period of years, for each country separately.

The data presented in the third classification are the basis of the report, and the material in the other classes is drawn from these detailed statements. The tables in the first group present the averages of the tables in the third group. In striking these averages the period 1881 to 1890 has been taken, but when that period could not be had the one nearest was used.

In the first group of tables the column marked "period" shows the years for which the figures presented are averages. Where two periods appear, the first refers to the figures of production and the second to trade. Statements which are marked with a star (*) are generally for a period somewhat different from the one indicated in the first column. The mark also indicates a reference to the detailed statements by countries, where the peculiarity of the figures marked will be explained.

The equivalents used in making the necessary reductions from foreign moneys and measures are presented in tabular form. In reducing monetary units, the values proclaimed by the Director of the United States Mint at the beginning of each year have been used. An exception was made in the case of Austria-Hungary, where the value of the gulden has been calculated on the basis of the average price of silver each year. The value of the Russian rouble is calculated on the value of the metallic rouble as furnished by the official representative of that Government. The data for 1890 not being available, the figures for 1889 are repeated. In the French Possessions of Asia the piaster has been reduced at an assumed value of 68 cents.

Wherever possible the foreign units of measure have been reduced to bushels of capacity, the Winchester bushel of 2150.42 cubic inches being taken as the standard. Where the foreign measure was a unit

of weight it was reduced to pounds and then to bushels, according to the commercial standard of weight per bushel. The weights recognized were, wheat, 60 pounds; corn, 56; rye, 56; barley, 48; potatoes, 60.

POPULATION OF THE WORLD.

In preparing a statement of the population of the different countries of the world we have, as far as possible, obtained the data from original official sources. Where other data is used it is usually official but not compiled from the original statement. Whenever estimates are relied upon they are upon the authority of the well-known Statesman's Year Book or of the British officially published statistical abstract for principal and other foreign countries.

In order that an average of population may be used in comparison with figures to be deduced from the tables which appear in this report, statements of population at as near the beginning and close of the period as possible have been sought.

In the population table the presence of the double dagger (††) indicates that the figures thus marked are presented in the British abstract already referred to as having been taken from an official source. The single dagger (†) indicates that the figures thus marked are estimates which are presented in the same publication.

A double star (***) indicates that the figures thus marked are taken from Statesman's Year Book and are given as having been taken from official sources. A single star (*) indicates that the figures are estimates made by the same publication.

In the case of Spain and Portugal no estimate or definite statement was available and the figures presented are the results of a calculation based upon the annual average rate of increase between most recent censuses. In the case of Portugal, according to the Statesman's Year Book, the increase between 1878 and 1881 was at the rate of 1.15 per cent per annum; and in Spain, by the same authority, the rate of increase between 1877 and 1887 was at the rate of 0.55 per cent per annum. These rates have been used in calculating the populations presented for the first period. In some few cases there are variances between the statements for the first and last years which can not be satisfactorily explained upon the basis of natural increase of population. In the case of Bulgaria, for example, there is an apparent increase of considerably more than 50 per cent, a rate which can not be accepted except upon the assumption of either an error in the work or changes in boundary lines. In the prominent countries of Europe, France and Russia occupy the extreme positions. In France, during the years 1881 to 1891 inclusive, the total increase in population amounted to only 1.8 per cent, while in Russia the apparent increase in two years was 4.3. It should be borne in mind, however, that the figures presented for France are the results of a careful and ex-

tended census work, while in the case of Russia the figures are mere estimates, which, however, in the main are based upon official calculations.

POPULATION.

Countries.	Year.	Population.	Year.	Population.
Europe:				
Austria-Hungary	1880	†† 37,883,503	1890	†† 41,345,118
Belgium	1876	†† 5,336,185	1890	†† 6,069,321
Bulgaria	1881	2,007,919	1888	3,154,375
Denmark	1880	1,969,039	1890	2,172,205
France	1881	37,672,048	1891	38,343,192
Germany	1880	45,234,061	1890	49,421,064
Greece	1879	*† 1,979,453	1889	*† 2,187,208
Italy	1881	†† 28,459,628	1889	†† 30,947,306
Norway and Sweden—				
Norway	1881	1,915,000	1890	1,985,000
Sweden	1880	4,565,668	1890	4,784,675
Netherlands	1879	†† 4,012,693	1889	†† 4,511,415
Portugal	1881	4,306,554	1889	4,719,075
Roumania	1884	4,468,273	1889	5,038,342
Russia and Poland—				
Russia	1885	†† 81,725,185	1887	†† 85,282,101
Poland	1885	†† 7,960,304	1887	†† 8,319,797
Servia	1883	†† 1,865,683	1891	*† 2,162,759
Spain	1881	16,796,363	1887	†† 17,545,160
Switzerland	1880	2,846,102	1888	2,933,334
United Kingdom	1881	35,026,108	1891	37,888,153
British Possessions—				
Cyprus	1881	186,173	.....	.....
Malta	1885	157,116	1887	160,679
Asia:				
China .....	.....	.....	1883	*† 383,000,000
Corea .....	.....	.....	1890 (?)	*† 10,528,937
Japan	1880	35,929,000	1890	40,072,020
British Possessions—				
Ceylon	1881	2,763,984	.....	.....
India	1881	198,790,853	1891	229,490,980
Penang and Malacca	1881	284,176	.....	.....
French Possessions—				
Anam .....	.....	.....	.....	.....
Cambodia .....	.....	.....	1889	18,000,000
Tonkin .....	.....	.....	.....	.....
Cochin-China	1885	1,792,933	1889	1,876,689
India	1885	275,261	1889	280,334
Africa:				
Egypt	1882	6,806,381	.....	.....
British Possessions—				
Good Hope	1880	*† 1,136,986	1887	1,377,213
Lagos	1881	75,270	.....	.....
Mauritius	1885	370,404	1887	368,163
Natal	1885	443,300	1887	477,421
Sierra Leone	1881	60,546	1889	75,000
French Possessions—				
Mayotte	1885	10,049	1889	12,270
Nossi-Bé	1885	11,299	1889	7,567
Réunion	1885	179,639	1889	165,915
Senegal	1885	138,391	1889	155,142
America:				
North America—				
Canada	1881	4,324,810	1891	4,829,411
Mexico	1880	*† 9,343,470	1890	*† 11,395,712
Newfoundland	1884	193,121	.....	.....
United States	1880	50,155,783	1890	62,622,250
South America—				
Argentine Republic .....	.....	.....	1887	*† 4,086,492
Chile	1885	†† 2,527,320	1890	*† 2,715,400
British Guiana	1885	270,042	1887	277,038
Dutch Guiana .....	.....	.....	1888	*† 57,365
French Guiana	1885	26,502	1889	29,769
Paraguay	1886	†† 263,751	1887	*† 329,645
Uruguay	1879	†† 438,245	1888	*† 648,299
Islands—				
British Possessions—				
Antigua	1881	34,964	.....	.....
Bahamas	1881	43,521	.....	.....
Barbadoes	1881	171,860	.....	.....
Bermuda	1885	15,063	1887	15,347
Dominica	1881	28,211	.....	.....
Grenada	1885	46,424	1887	48,346
Jamaica	1881	580,804	.....	.....
Montserrat	1885	11,097	1887	11,680

POPULATION—Continued.

Countries.	Year.	Population.	Year.	Population.
America—Continued.				
Islands—Continued.				
British Possessions—Continued.				
St. Christopher-Nevis	1881	43,501		
St. Lucia	1885	41,381	1887	42,301
St. Vincent	1886	45,031	1887	45,844
Tobago	1881	18,051	1887	20,335
Trinidad	1881	153,128	1887	183,486
Turk's Island	1881	4,778		
Virgin Islands	1881	5,287		
Dutch Possessions—				
Curacao			1888	*46,461
French Possessions—				
Guadeloupe	1885	181,098	1889	165,899
Martinique	1885	169,232	1889	175,863
St. Pierre and Miquelon	1885	6,300	1889	5,929
Australasia:				
New South Wales	1881	751,468	1889	1,122,200
New Zealand	1881	489,933	1889	620,280
Queensland	1881	213,525	1889	406,660
South Australia	1881	279,865	1889	324,480
Tasmania	1881	115,705	1889	151,480
Victoria	1881	862,346	1889	1,118,030
Western Australia	1881	29,708	1889	43,700
Island of the sea:				
British Possessions—				
Fiji	1885	127,279	1887	124,653
French Possessions—				
New Caledonia	1885	56,463	1889	62,752
Tahiti	1882	25,247	1886	22,916

WHEAT.

This is the most prominent food grain of the Caucasian race. It is an important crop in almost every country under their domination, and perhaps has a wider habitat than any other prominent product of the soil. Under diverse climates, differing soils, and varied development of agricultural methods it is an important resource in almost every portion of the globe. It forms a large item in the foreign trade of every commercial nation, and either in the form of grain or flour appears in the trade of even the most obscure country.

It is unfortunate that in some of the most important countries no official effort is made to register crop production each year, making it impossible to present a full statement of supply available for consumption. This failure in official effort is offset as far as possible by commercial estimates of wheat production for all countries contributing to the commercial supply, but as the figures presented in this report are all drawn from official sources there are gaps in the tabulated statements.

In the estimates of production which are presented for Europe the period covered, as far as possible, are the years 1881 to 1890, the average for the term being given. The average aggregate production for the countries for which official data are available is 1,088,281,618 bushels. This practically includes every country of Europe, except Bulgaria, Greece, Norway, Portugal, Servia, Spain, Switzerland, and Turkey. In order that a complete statement may be presented, com-

mercial estimates for these countries for recent years have been averaged. On this basis the average European wheat crop is:

	Bushels.		Bushels.
Officially estimated	1, 088, 000, 000	Spain	73, 000, 000
Bulgaria	40, 000, 000	Switzerland	2, 600, 000
Greece	6, 900, 000	Turkey	38, 000, 000
Portugal	7, 800, 000		
Norway	300, 000		1, 264, 600, 000
Servia	8, 000, 000		

This compilation shows the general accuracy of the early estimates of European production which appear in the reports of this Department. In the report for April 1891, a tabulation of these annual estimates was presented covering the years 1886 to 1890 inclusive. The average for the period was 1,220,000,000 bushels, not including Bulgaria or the British Possessions in Europe, for which regular data were not presented. Including the crop of these countries the statement would have been about 1,262,000,000 bushels. As this early tabulation includes preliminary official estimates, supplemented by commercial estimates, this verification is especially gratifying.

In the annual estimates of the wheat crop of the world which appear from various sources, many countries in which wheat is grown are not included. These are generally countries which do not in any way contribute to the commercial supply, though in the aggregate they must grow and consume an appreciable quantity of the grain. The incompleteness of the statements referred to may be judged by the fact that in the table given below official figures are presented for five countries or colonies, aggregating an average production of more than 15,000,000 bushels, which are not included in commercial statements of the world's crop.

In the annual report of the Statistician for 1891 it was said: "It is not difficult to prove the existence of 2,300,000,000 bushels as an average." This official average, supplemented by averages of commercial estimates in certain other countries, makes an aggregate of 2,280,856,715 bushels, not including several districts known to produce some wheat, and making no account of any grown in the northern provinces of China. An erroneous idea of the magnitude of the "crop of the world," involving an underestimate, has prevailed in consequence of the frequent publication of incomplete lists of wheat growing countries. This investigation confirms the general accuracy of this estimate. A compilation of the commercial estimates for the years 1888 to 1891 for those countries having no official estimates has been made, using the figures presented each year in the March report of the Department of Agriculture. The statement is presented as follows:

South America:	Bushels.	Europe:	Bushels.
Argentine Republic	28, 707, 561	Greece	6, 969, 247
Chile	15, 174, 537	Norway	355, 273
		Portugal	7, 777, 643

Europe—Continued.	Bushels.	Africa:	Bushels.
Servia	8,065,050	Algeria	21,584,298
Spain	73,245,374	Cape Colony	3,864,810
Switzerland	2,622,479	Egypt.....	10,381,269
Turkey	38,107,715	Tunis	4,256,250
Asia:		Total.....	293,551,331
Asia Minor	37,339,461		
Persia.....	22,130,960		
Syria	12,969,404		

In addition a commercial estimate of the crop of Bulgaria was 40,022,976 bushels, and a commercial restatement of an official estimate of the crop of the Caucasus, made for the first time, was 74,269,440 bushels. Consolidating these various data, an average crop of the world so far as is officially or commercially estimated may be presented in this form:

	Bushels
Officially estimated	1,873,012,968
Commercial estimates, 1888 to 1891.....	293,551,331
Bulgaria and Caucasus, 1891	114,292,416
Total.....	2,280,856,715

It is an easy matter to show the net wheat supply of the principal countries so far as wheat in the grain is concerned, but there is a further uncertain element that renders such a calculation valueless for most countries. A considerable portion of the wheat trade of the world is carried on in the form of flour, and, as in most official records of foreign trade the different kinds of flour are not separately stated, it is impossible to calculate exactly the wheat supply per head of population. As far as such a showing can be made it will be found in the discussion of net supply in a later chapter.

The wheat "market of the world," which is open for the surplus production of producing countries is circumscribed and very small when the general use of wheat as a bread grain is considered. Practically it is all in Europe, and even there limited to the necessities of a few countries. Insular and factory-studded Great Britain, with its small area and its teeming population, and populous little Belgium practically furnish the market for which the wheat-growers of the world are striving in competition. Excluding these two countries Europe is practically self-supporting, the excess in the eastern countries being sufficient to meet the deficiencies in the western nations. To supply the small amount required to meet the European deficiency the fields of America, India, and Australasia are principally relied upon, and the sharp competition between the agriculturists of the rivals for the possession of this "world's market" results in furnishing a cheap food supply for the artisans of the manufacturing nations.

The classification of the principal countries into importing and exporting countries might be made as follows, excluding those in which supply and requirements are closely balanced:

Importing countries.	Net imports.	Exporting countries.	Net exports.
	<i>Bushels.</i>		<i>Bushels.</i>
Belgium	19, 170, 059	Austria-Hungary	5, 846, 800
France	37, 426, 407	Bulgaria	5, 690, 996
Germany	18, 767, 319	Roumania	19, 200, 979
Greece	8, 975, 790	Russia	83, 170, 011
Italy	19, 931, 234	Servia	2, 236, 912
Norway and Sweden	1, 909, 362	India	30, 946, 842
Netherlands	8, 591, 639	United States	83, 343, 864
Portugal	3, 663, 852	Argentine Republic	3, 747, 733
Spain	6, 111, 449	Canada	2, 416, 821
Switzerland	10, 867, 766	Chile	3, 924, 346
United Kingdom	105, 527, 648	Australasia	8, 178, 886
	240, 942, 525		248, 704, 190

This statement shows that the United Kingdom absorbs about 43 per cent of the commercial supply of wheat in the grain, and that this country, with Belgium, France, Germany, and Italy, furnishes a market for about 83 per cent. The net importation for all the countries presented below aggregates 243,000,000 bushels, and the net exports 250,000,000, leaving 7,000,000 bushels to find a market in such countries as are not reported.

WHEAT.

Countries.	Period.	Production.	Imports.	Exports.	Net supply.
Europe:					
Austria-Hungary—		<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>
Austria	1881-1890	44, 695, 104	} 3, 488, 670	9, 335, 470	154, 682, 678
Hungary	1881-1890	115, 834, 374			
Belgium	1881-1890	17, 930, 499	26, 819, 681	7, 649, 622	37, 100, 558
Bulgaria	1881-1890	.....	6, 778	5, 697, 774	.....
Denmark	{ 1880-1889 } 1881-1890	4, 837, 805	2, 118, 916	773, 437	6, 183, 284
France	1881-1890	309, 432, 798	37, 593, 995	167, 588	346, 859, 205
Germany	1881-1890	92, 861, 834	19, 723, 127	955, 808	111, 629, 153
Greece	1889-1890	.....	8, 990, 581	14, 791	.....
Italy	{ 1884-1891 } 1881-1890	122, 283, 127	21, 174, 103	1, 242, 869	142, 214, 361
Norway and Sweden—					
Norway	1881-1890	.....	256, 534	10	.....
Sweden	1881-1890	3, 673, 392	1, 688, 087	35, 249	5, 326, 230
Netherlands	{ 1880-1887 } 1881-1890	5, 747, 942	19, 335, 933	10, 744, 294	14, 339, 581
Portugal	1881-1890	(*)	3, 667, 375	3, 523	.....
Roumania	{ 1890-1891 } 1880-1890	49, 639, 952	106, 560	19, 307, 539	.....
Russia and Poland—					
Russia	{ 1883-1890 } 1881-1890	229, 915, 597	} *210, 253	83, 380, 264	159, 096, 146
Poland	1888-1890	12, 350, 560			
Servia	1888-1890	.....	37, 424	2, 274, 336	.....
Spain	1880-1890	.....	6, 160, 599	49, 150	.....
Switzerland	1885-1890	.....	10, 879, 267	11, 501	.....
United Kingdom	{ 1884-1890 } 1881-1890	77, 676, 551	107, 120, 176	1, 592, 528	183, 204, 199
British Possessions—					
Cyprus	{ 1880-1887 } 1885-1887	1, 240, 312	83, 091	*135, 764	.....
Malta	1880-1887	161, 837	.....	.....	.....
Asia:					
British India	{ 1885-1891 } 1881-1890	254, 927, 152	165, 782	31, 112, 624	.....
Japan	{ 1881-1890 } 1883-1890	13, 857, 801	20, 663	360, 481	13, 517, 983
Dutch Possessions—					
Java	1881-1890	.....	4, 415	.....	.....

WHEAT—Continued.

Countries.	Period.	Production.	Imports.	Exports.	Net supply.
Asia—Continued.					
French possessions—		<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>
India.....	1887		854		
Tonkin.....	1888-1889		410		
Africa:					
Egypt.....	1884-1891		660, 791	1, 838, 844	
British Possessions—					
Cape of Good Hope....	1881-1890		598, 213		
Mauritius.....	1887-1890		41, 155		
Natal.....	1880-1887	10, 218			
French Possessions—					
Réunion.....	1882-1889		57, 359	*7, 513	
America:					
North America—					
Canada.....	1881-1890	39, 898, 680	3, 896, 402	6, 313, 223	37, 481, 859
Mexico.....	1888-1890			17, 478	
United States.....	1881-1890	439, 766, 572	388, 311	83, 732, 175	356, 422, 708
South America—					
Argentine Republic....	1880-1889		60, 316	*3, 876, 308	
Chile.....	1880-1889		*15, 389	3, 939, 735	
Dutch Guiana.....	1880-1886	6, 034			
Paraguay.....	1885-1887		51, 343		
Uruguay.....	1881-1890		253, 080	151, 613	
Islands—					
Martinique.....	1882-1888		17, 760		
Australia:					
New South Wales.....	1881-1890	4, 239, 672	759, 053	119, 111	4, 879, 614
New Zealand.....	1883-1891	8, 008, 131	4, 203	2, 495, 061	5, 517, 273
Queensland.....	1881-1890	106, 210	64, 064	15	170, 259
South Australia.....	1881-1890	*11, 390, 544	36, 011	4, 426, 265	7, 000, 290
Tasmania.....	{ 1882-1891 } { 1881-1890 }	759, 479	143, 830	16, 550	886, 759
Victoria.....	{ 1882-1891 } { 1881-1890 }	11, 446, 085	101, 803	2, 240, 146	9, 307, 742
Western Australia.....	{ 1881-1890 } { 1885-1890 }	344, 782	9, 298		354, 080
Islands of the Sea:					
French Possessions—					
Tahiti.....	1884-1889		1, 073		

CORN.

The annual production of this American contribution to the food grains of the world exceeds in volume in years of plenty the crop of any other cereal. The great bulk of the crop is grown in the United States, but it is also an important item in rural economy in the European countries along the lower Danube, in Mexico, Argentine Republic, and a scattered crop in most of the countries of the world where climatic conditions are favorable to its growth. Its value as human food is only appreciated in the American countries in which it is grown, its principal use in the Old World being as an animal food. For this reason it does not figure extensively in the foreign trade of the various countries. Being used in competition with the cheaper cereals and root crops the volume of the trade depends upon the price in surplus countries, and this price in turn is set by the requirements there for domestic consumption. The United States is the principal source of supply, and the value in this country is not appreciably affected by the foreign demand.

The average annual net importation of Europe, according to the data presented, is about 64,000,000 bushels. The average net exportation from the United States during the same period is about 57,000,000 bush-

els, of which Canada takes about 2,000,000 bushels. The remainder required comes from the average exportation of 9,000,000 bushels from Argentine Republic. In Europe only four countries appear as exporters—Bulgaria, Russia, Roumania, and Servia—and of these only Russia and Roumania are important. The former ships more than one-half of her total crop and the latter nearly as large a proportion. The net contribution of the United States to meet the world's requirements is much larger than the net contributions from all other sources combined, and yet the shipments from this country amount to less than 4 per cent of the annual production.

A definite statement of the aggregate corn crop of the world can hardly be compiled. It is grown, to some extent at least, in many countries for which no data of production are available, but it is not difficult to compile a statement which shall present the aggregate production of all countries which contribute to the commercial supply of civilized countries. In the general table below official estimates are presented for the principal countries, which might be thus summarized:

	Bushels.
Europe.....	311, 820, 759
Asia.....	823, 868
Africa.....	2, 904, 979
United States.....	1, 680, 696, 600
Australasia.....	6, 797, 791
Islands.....	30, 147
Total (official).....	2, 003, 074, 144

This showing may be supplemented by unofficial estimates for a number of producing countries, drawn in the main from Dr. Juraschek's work *Übersichten der Weltwirtschaft*, as follows:

	Bushels.
Bulgaria and Turkey.....	21, 281, 250
Servia.....	10, 782, 500
Spain.....	22, 132, 500
Egypt.....	13, 336, 250
Chile.....	851, 250
Algiers.....	283, 750
Argentine Republic.....	19, 011, 250
Canada.....	6, 405, 157
Total.....	94, 083, 907

Consolidating these estimates of the corn crop of the world, under the limitations already noted, they make an aggregate of 2,097,158,051 bushels, and including a somewhat uncertain allowance for Mexico, about 2,300,000,000 bushels.

The United States produces 80 per cent of the total crop, taking the average of a series of years, and a much larger proportion in years of heavy production. In 1891 the crop of this country almost equaled in volume the average crop of the world, and in such seasons the volume of the world's corn crop exceeds that of any other cereal.

CORN.

Country.	Period.	Production.	Imports.	Exports.	Net supply.
Europe:					
Austria-Hungary—		<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>
Austria	1881-'90	17,315,978	6,204,531	1,506,927	114,205,857
Hungary	1881-'90	92,192,275			
Bulgaria	1881-'90	.....	1,591	3,441,377	.....
Denmark	1881-'90	.....	2,052,427	166,509	.....
France	1881-'90	26,563,111	14,311,646	399,080	40,475,677
Germany	1881-'90	.....	9,417,902	4,934	.....
Italy	{1884-'91 1881-'90}	80,722,264	2,698,773	703,760	82,716,277
Norway and Sweden—		.....	.....	.....	.....
Norway	1881-'90	.....	57,197	208	.....
Sweden	1881-'90	.....	355,896	.....	.....
Netherlands	1890	.....	7,662,043	1,062,319	.....
Portugal	{1882-'84 1881-'90}	14,458,806	782,598	*4,608	.....
Roumania	{1890-'91 1880-'90}	61,003,014	86,349	*24,033,690	.....
Russia and Poland—		.....	.....	.....	.....
Russia	{1885-'90 1881-'90}	19,565,311	*265,971	10,298,713	9,532,569
Poland	.....	.....	
Servia	1888-'90	.....	835	222,360	.....
Spain	1880-'90	.....	(*)	2,419	.....
Switzerland	1885-'90	.....	1,149,950	4,027	.....
United Kingdom	1881-'90	.....	61,396,419	567,844	60,828,575
Asia:					
Japan	1880-'87	*576,114	43	.....	.....
French Possessions—		.....	.....	.....	.....
Cochin China	1885-'89	247,754	.....	.....	.....
Tonkin	1888-'89	.....	7	.....	.....
Africa:					
Egypt	1884-'91	.....	.....	1,005,351	.....
British Possessions—		.....	.....	.....	.....
Cape of Good Hope	1881-'90	.....	161,504	.....	.....
Natal	1880-'87	2,779,368	.....	100,880	.....
French Possessions—		.....	.....	.....	.....
Mayotte	1885-'89	3,648	.....	.....	.....
Nossi-Bé	1884-'89	121,963	.....	.....	.....
Réunion	1884-'89	.....	*7,657	1,016	.....
America:					
North America—		.....	.....	.....	.....
Canada	1881-'90	.....	5,563,865	3,339,709	.....
Mexico	1884-'90	.....	.....	12,430	.....
United States	1881-'90	1,680,696,600	26,893	57,256,957	1,623,466,476
South America—		.....	.....	.....	.....
Argentine Republic	1881-'90	.....	97	9,282,934	.....
Chile	1880-'89	.....	227	8,555	.....
French Guiana	1882-'89	.....	3,429	.....	.....
Paraguay	1881-'85	.....	*7,719	311	.....
Uruguay	1881-'90	.....	31,990	311,325	.....
Islands:					
British Possessions—		.....	.....	.....	.....
Antigua	1880-'87	.....	42,916	.....	.....
Bermuda	1882-'87	.....	25,473	.....	.....
Jamaica	1880-'87	.....	70,155	.....	.....
St. Christopher-Nevis	1882-'87	.....	18,860	.....	.....
Dutch Possessions—		.....	.....	.....	.....
Curacao	1882-'86	4,403	(*)	.....	.....
French Possessions—		.....	.....	.....	.....
Guadeloupe	{1882-'88 1882-'89}	10,544	16,910	*280	.....
Martinique	1882-'88	.....	34,374	.....	.....
St. Pierre and Mi- quelon	1885-'89	.....	3,836	.....	.....
Australasia:					
New South Wales	1881-'90	4,560,893	177,780	314,418	4,424,255
New Zealand	{1888-'91 1883-'91}	242,327	791	63,463	279,655
Queensland	1881-'90	1,741,492	185,413	33,070	1,893,835
South Australia	1881-'90	.....	7,857	1,673	.....
Tasmania	1885-'90	.....	978	.....	.....
Victoria	1881-'90	251,261	136,402	6,233	381,430
Western Australia	{1887 1885-'90}	1,813	*6,201	.....	.....
Islands of the Sea:					
British Possessions—		.....	.....	.....	.....
Fiji	1881-'87	*15,200	.....	(*)	.....

RYE.

This cereal is one of the most important resources of European agriculture and is a prominent feature in the trade of nearly every country of that continent. In the rest of the world it is of minor importance only. In many of the countries of continental Europe it is the bread of the people, the production and consumption being greater than that of wheat. The largest crop of any country is grown in Russia, averaging more than 700,000,000 bushels, a cereal crop second to that of no country, except corn in the United States. Germany stands second in production, with a crop averaging 228,000,000 bushels, and Austria-Hungary third, with 122,000,000 bushels.

In the case of this grain the centers of production and consumption are the same, and hence it does not figure in foreign trade proportionate to its importance as a crop. The largest importing country, Germany, purchases only 30,000,000 bushels per annum, and the heaviest exporting country, Russia, ships only 46,000,000 bushels. This does not include the trade in rye flour. The continent practically supplies its own wants, the aggregate imports, as presented below, amounting to about 67,400,000 bushels and the exports 66,500,000 bushels.

Outside of Europe the United States and Japan are the only countries in which the crop is important. In the United States the average production is about 25,000,000 bushels, the net exportation about 2,000,000 bushels, leaving a supply for domestic requirements of about 23,000,000, or but little more than one-third of a bushel for actual consumption for each unit of population. Japan has an average production of 22,000,000 bushels, while no mention is made of the grain in the records of foreign trade. On this basis the actual consumption of that country would be about one-half bushel per head.

The crop is important as an agricultural resource only in Europe. On that continent the crop, as far as officially reported below, aggregates 1,210,662,010 bushels. Dr. Franz von Juraschek, in his valuable publication *Übersichten der Weltwirtschaft*, gives a statement of the average annual production of rye in Europe for a series of years, from which the following data are drawn:

	Bushels.
Bulgaria and Turkey.....	20, 146, 250
Servia.....	1, 702, 500
Spain.....	20, 997, 500
Switzerland.....	1, 986, 250
United Kingdom.....	1, 702, 500
Finland.....	10, 782, 500
Total.....	57, 317, 500

On this basis the average crop of Europe is:

	Bushels.
Officially estimated.....	1, 210, 662, 010
Unofficially estimated.....	57, 317, 500
Total.....	1, 267, 979, 510

Outside of Europe, Japan, the United States, and Australasia report an annual product of 47,824,323 bushels, while the crop of Canada is approximately 2,000,000 bushels. This gives a non-European crop of 49,824,323 bushels, and makes the world's annual rye crop 1,317,803,833 bushels. As in the case of wheat, it must not be assumed that the estimate presented absolutely covers all countries. There is undoubtedly rye grown in China and in other countries from which no data can be had, but the amount is probably small and of no importance in the question of commercial supply. The estimate presented may be taken as covering all rye which in any way affects the supply for consumption in the civilized world. The distribution of the crop is interesting. Europe grows 96 per cent of the total crop, and one country, Russia, produces 54 per cent of the whole. The crop is concentrated in eastern Europe, 83 per cent of the production of the world coming from Austria-Hungary, Germany, Russia, Roumania, Turkey, and Bulgaria.

RYE.

Countries.	Period.	Production.	Imports.	Exports.	Net supply.	
Europe:						
		<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	
Austria-Hungary—						
Austria	1881-'90	78,624,909}				
Hungary	1881-'90	43,331,438}	2,254,033	757,250	123,453,130	
Belgium	1881-'90	17,120,546	4,112,071	3,207,084	18,025,533	
Bulgaria	1881-'90	.....	*1,866	947,671	.....
Denmark	1880-'89	} 16,814,988				
	1881-'90					
France	1881-'90	69,281,398	398,161	2,184,588	71,067,825	
Germany	1881-'90	228,068,413	29,676,652	232,605	257,512,460	
Italy	1884-'91	4,428,628	.....	.....	.....
Norway and Sweden—						
Norway	1875	} 1,048,170				
	1881-'90			6,195,507	7,266
Sweden	1881-'90	19,727,278	5,668,927	34,027	25,362,178	
Netherlands	1880-'87	} 10,785,984				
	1881-'90			15,249,955	7,599,004	18,436,985
Portugal	1882-'84	} 4,842,944				
	1880-'86			*70,549	(*)
Roumania	1890-'91	} 4,303,591				
	1880-'90			*27,457	*4,384,293
Russia and Poland—						
Russia	1883-'90	} 608,588,919				
	1881-'90			*6,074	46,318,012	665,971,785
Poland	1888-'90		43,694,804			
Servia	1888-'90	.....	73,384	174,854	.....
Spain	1880-'90	.....	(*)	159,151	.....
Switzerland	1885-'90	.....	194,643	744	.....
United Kingdom	1881-'90	.....	962,669	16,031	.....
Asia:						
Japan	1881-'90	22,411,318	.....	.....	.....
America:						
North America—						
Canada	1881-'90	.....	35,678	541,764	.....
United States	1881-'88	} 25,339,571				
	1881-'90			368,676	2,114,351	23,593,866
South America—						
Argentine Republic	1881-'90	.....	20	85	.....
Australasia:						
New South Wales	1881-'90	} 15,566				
	1888-'90			259
New Zealand	1888-'91	42,640	.....	.....	.....
Queensland	1881-'90	.....	169	.....	.....
South Australia	1883-'90	.....	186	.....	.....
Tasmania	1885-'90	.....	144	32	.....
Victoria	1881-'90	15,228	*320	147	.....

BARLEY.

Barley is a prominent crop in Europe and Canada, an important one in Japan, and one of the minor cereal crops in the United States and in Australasia. Russia leads in production, followed by Germany, Austria-Hungary, and the United Kingdom, in the order named. Only two of these four countries (Russia and Austria-Hungary), produce enough for their own requirements.

A peculiar feature of the barley trade is the fact that in Europe the recorded imports exceed the exports by an average of nearly 10,000,000 bushels per annum, while in all the countries outside of Europe, whose trade in barley is important enough to secure its separate recording, the balance of trade is on the same side. This presents the anomaly of more barley being bought than is sold. It can only be explained on the supposition that in the official records of some countries other grains, or barley malt, have been included in the imports but not in the exports.

The greater portion of the recorded crop is grown in Europe, the aggregate production for that continent, as officially estimated, averaging 565,381,126 bushels; Japan, the United States, and Australasia are the only non-European countries officially estimating their production, and for these the aggregate, as presented, reaches 89,694,362 bushels, making the crop of all countries having official estimates 655,075,488 bushels.

In *Ubersichten der Weltwirtschaft* an estimate of the barley production of various countries is presented, and from this statement the following data for countries not officially reported upon is drawn:

	Bushels.
Bulgaria and Turkey	21,848,750
Greece	2,270,000
Servia	3,121,250
Spain	49,372,500
Switzerland	851,250
Canada	21,848,750
Egypt	9,647,500
Chile	2,837,500
Algeria	34,901,250
Total	146,698,750

It will be seen that a consolidation of these two statements will not include every country of the world in which barley may be grown, but it will undoubtedly include practically all the barley that enters into the supply of the civilized world. Such a consolidation makes an aggregate production of 801,774,238 bushels.

Only four countries of the world produce a larger barley crop than the United States, and yet in this country it is classed as one of the minor cereals. The average production is about 55,000,000 bushels for a period of ten years, but in recent years it has been larger, and is increasing. It is the only cereal which is not produced in sufficient quantity for the domestic requirements, the average net imports for ten years having amounted to about 10,000,000 bushels. Canada has sup-

plied this amount, but under the present customs law imports have fallen away to small proportions, and the barley of our northern neighbor, which has found a market in this country, is now seeking European consumers. Domestic production has been stimulated to this extent, and is now about sufficient for home requirements.

Japan is the only other country of considerable production, the average crop of 32,000,000 bushels being practically all consumed at home.

BARLEY.

Countries.	Period.	Production.	Imports.	Exports.	Net supply.
Europe:					
Austria-Hungary—		<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>
Austria.....	1881-'90	51,505,090			
Hungary.....	1881-'90	46,400,727	1,244,006	14,473,495	84,676,328
Belgium.....	1881-'90	3,622,526	9,174,963	1,934,599	10,862,890
Bulgaria.....	1881-'90	.....	10,636	1,049,273	.....
Denmark.....	1880-'89 } 1881-'90 }	22,599,287	566,645	2,628,507	20,537,425
France.....	1881-'90	50,543,111	6,005,371	4,308,091	52,240,391
Germany.....	1881-'90	100,948,225	20,746,278	2,179,187	119,515,316
Italy.....	1884-'92 } 1883-'90 }	8,858,675	540,632	267,641	9,131,666
Norway and Sweden—					
Norway.....	1875 } 1881-'90 }	4,421,554	2,170,702	5,717	6,586,539
Sweden.....	1881-'90	14,140,767	368,948	1,081,479	13,428,236
Netherlands.....	1880-'87 } 1881-'90 }	4,927,984	7,311,479	3,751,030	8,488,433
Portugal.....	1882-'84 } 1881-'90 }	2,117,693	101,035	(*)	.....
Roumania.....	1890-'91 } 1880-'90 }	19,341,493	*41,750	*10,726,694	.....
Russia and Poland—					
Russia.....	1883-'90 } 1881-'90 }	143,356,676	*116,459	32,123,179	121,897,834
Poland.....	1888-'90	10,547,878	.....	.....	.....
Servia.....	1888-'90	.....	58,608	163,209	.....
Spain.....	1880-'90	.....	(*)	113,115	.....
Switzerland.....	1885-'90	.....	640,211	6,475	.....
United Kingdom.....	1884-'90 } 1881-'90 }	80,154,917	35,808,269	182,692	115,780,494
British Possessions—					
Cyprus.....	1880-'87	1,835,120	.....	266,148	.....
Malta.....	1880-'87	59,403	.....	.....	.....
Asia:					
Corea.....	1890	.....	.....	109,595	.....
Japan.....	1881-'90 } 1883-'90 }	32,026,835	14,490	7,452	32,033,873
French Possessions—					
Tonkin.....	1888-'89	.....	81	.....	.....
Africa:					
Egypt.....	1884-'91	.....	.....	429,617	.....
British Possessions—					
Cape of Good Hope.....	1881-'90	.....	35,202	.....	.....
America:					
North America—					
Canada.....	1881-'90	.....	12,917	9,631,318	.....
Mexico.....	1884-'90	.....	.....	808	.....
United States.....	1881-'88 } 1881-'90 }	54,992,294	10,442,978	792,374	64,642,898
South America—					
Argentine Republic.....	1881-'90	.....	1,054,266	34,366	.....
Chile.....	1880-'89	.....	11,606	534,710	.....
Uruguay.....	1883-'90	.....	10,877	.....	.....
Australasia:					
New South Wales.....	1881-'90	117,592	78,796	20,040	176,348
New Zealand.....	1883-'91	988,885	3,924	191,344	1,176,312
Queensland.....	1881-'90	14,326	6,421	68	20,679
South Australia.....	1880-'90 } 1881-'90 }	*183,603	52,829	6,786	229,646
Tasmania.....	1881-'90	107,990	*16,052	17,113	109,051
Victoria.....	1881-'90	1,182,082	120,130	22,077	1,280,135
Western Australia.....	1881-'90 } 1885-'90 }	80,755	4,934	.....	.....
Islands of the sea:					
French Possessions—					
New Caledonia.....	1887	.....	493	.....	.....
Tahiti.....	1887-'89	.....	10,024	.....	.....

OATS.

The oats crop of the world is practically all grown in Europe and North America, although Australasia furnishes a considerable product for her own consumption. The United States leads the world in annual production, followed by Russia, Germany, and France in the order named. The bulk of the trade of the world is confined to exchanges among the countries of Europe, the foreign trade of other countries being comparatively small. The average annual importation of European countries is about 97,000,000 bushels, of which the United Kingdom takes 49,000,000 bushels, and the average annual exports 89,000,000 bushels, Russia furnishing 58,000,000 bushels. This leaves about 8,000,000 bushels per annum to be drawn from other sources of supply, Russia furnishing about 1,000,000 bushels shipped through the Caucasian ports of the Black Sea, United States and Canada nearly 5,000,000 bushels, and Australasia less than 1,000,000 bushels. Eight countries in Europe have a net exportation, but only two (Russia and Sweden) are important as sources of supply. The United Kingdom, France, and Germany are the principal importing countries. Except in the countries named the production is closely regulated to the demands for consumption, and the foreign trade is insignificant.

The European crop for the countries officially reported aggregates 1,592,114,138 bushels. *Übersichten der Weltwirtschaft*, previously quoted, presents estimates of production for European countries not presented below, as follows:

	Bushels.
Bulgaria and Turkey	9,363,750
Servia	2,270,000
Spain	7,377,500
Switzerland	5,107,500
Finland	9,931,250
Total	34,050,000

With these data an estimate of the production of the world, not attempting to include those countries which in no way affect the commercial supply of the grain, might be thus presented:

	Bushels.
Europe, official estimates	1,592,114,138
Europe, unofficial estimates	34,050,000
United States	594,961,401
Australasia	17,045,346
Canada (estimated)	90,000,000
Total	2,328,170,885

The production of this grain in Australasia is mainly confined to the crop of New Zealand, where climatic conditions are especially favorable, and where the yield per acre is large and the weight of the grain heavy. No other colony except Tasmania produces sufficient to supply its own wants, the deficiency being met by imports from New Zealand.

OATS.

Countries.	Period.	Production.	Imports.	Exports.	Net supply.
Europe:					
Austria-Hungary—		<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>
Austria	1881-'90	99,327,343			
Hungary	1881-'90	54,789,848	2,065,196	4,014,614	152,167,773
Belgium	1881-'90	26,606,619			
Bulgaria	1881-'90		* 1,563	210,113	
Denmark	1880-'89				
Denmark	1881-'90	31,496,118	1,845,118	310,865	33,030,371
France	1881-'90	246,060,733	17,059,413	655,603	262,464,543
Germany	1881-'90	299,556,143	15,553,605	1,087,922	314,021,826
Italy	1884-'91				
Italy	1881-'90	17,290,307	1,478,460	112,765	18,656,002
Norway and Sweden—					
Norway	1875				
Norway	1881-'90	9,179,108	38,000	314,963	
Sweden	1881-'90	53,497,474	201,905	13,620,983	40,078,396
Netherlands	1880-'87				
Netherlands	1881-'90	12,451,508	6,287,621	7,636,823	11,102,306
Portugal	1882-'84				
Portugal	1880-'86	993,514	* 6,420	(*)	
Roumania	1890-'91				
Roumania	1880-'90	7,649,761	* 9,791	* 1,818,555	
Russia and Poland—					
Russia	1882-'90				
Russia	1881-'90	535,091,581	* 40,603	58,022,565	507,810,416
Poland	1888-'90	30,700,797			
Servia	1888-'90		46,801	487,913	
Spain			(*)	(*)	
Switzerland	1885-'90		2,967,043	6,450	
United Kingdom	1884-'90				
United Kingdom	1881-'90	167,306,646	49,180,525	829,631	215,657,540
British Possessions—					
Cyprus	1880-'87	116,638			
Asia:					
Japan	1883-'90		570		
British Possessions—					
India	1881-'90			279,450	
French Possessions—					
Cochin-China	1882-'89		247		
Tonkin	1888-'89		98		
Africa:					
British Possessions—					
Cape of Good Hope	1881-'90		82,883		
Mauritius	1880-'87		339,918		
America:					
North America—					
Canada	1881-'90		272,091	2,062,410	
United States	1881-'90	594,961,401	310,885	2,828,387	592,443,899
South America—					
British Guiana	1882-'87		98,658		
French Guiana	1884-'89		9,080		
Islands—					
British Possessions—					
Bermuda	1882-'87		51,005		
St. Christopher-Nevis	1882-'87		7,634		
French Possessions—					
Gaudaloupe	1882-'89		76,573	* 280	
Martinique	1882-'88		22,720		
St. Pierre and Miquelon	1885-'89		3,289		
Australasia:					
New South Wales	1881-'90	418,872	1,190,883	105,996	1,503,759
New Zealand	1883-'91	11,209,071	* 91	2,800,280	8,408,882
Queensland	1881-'90	5,268	200,018	143	205,143
South Australia	1880-'90	* 79,213	270,409	54,476	295,136
Tasmania	1881-'90	761,327	* 39,307	155,162	645,472
Victoria	1881-'90	4,543,574	926,064	89,862	5,379,776
Western Australia	1881-'90				
Western Australia	1885-'90	28,021	75,361		
Islands of the sea:					
French Possessions—					
New Caledonia	1887-'89		* 845		
Tahiti	1887-'89		167		

POTATOES.

This is the second contribution of the New World to the food supply of nations, and it has become an important resource in the dietary of nearly every country of the world where systematic agriculture is practiced. With other root crops it is an especially important item in European agriculture, forming in many districts the staple article of diet. The heavy yield per acre and its inherent value for food purposes make it available as a crop in countries where agricultural areas are limited and population dense. Under intensive farming methods the food produce per acre of potatoes is very large. This is exemplified by the garden-like culture which is carried on in the Channel Islands, Jersey and Guernsey, where an area of only 8,819 acres furnished 2,336,783 bushels of potatoes for shipment to the United Kingdom in 1891. This is at the rate of 265 bushels per acre in addition to the home consumption, and the export trade amounted to \$334 per acre cultivated. The value of the crop in densely peopled countries is appreciated, the supply per head being large where the population per square mile is greatest. In this particular Germany leads, with Belgium and Netherlands in the order named.

The crop does not enter largely into the foreign trade of any country, the production of each country being mainly for home use, and in most of them ample for domestic requirements. Germany, with a net exportation of less than 5,000,000 bushels per annum, is the heaviest exporting country, but this amount is less than one-tenth of 1 per cent of the average crop. The United Kingdom, with 5,000,000 bushels, is the largest importing country, and yet only about 2 per cent of her total supply is drawn from foreign sources. Europe is a little more than self supporting, the aggregate imports of all the countries being about 14,500,000 bushels against an exportation of about 15,200,000. The average crop of Europe, as officially reported, for the countries presented is 2,663,505,647 bushels. This is exclusive of Bulgaria, Greece, Portugal, Servia, Spain, Switzerland, and Turkey, for which no official estimates are available.

The official estimates for countries outside of Europe aggregate an annual production of 187,671,363 bushels. Official estimates for this crop are more fragmentary than in the case of the other leading crops, and the figures given do not cover so large a portion of the world's product as in other tabulations presented in this report. It will be noticed that aside from the United States and the island of Guadeloupe no country of the New World presents an official estimate of the crop.

Germany is the greatest potato producing and consuming country in the world, with an average production of nearly 900,000,000 bushels per annum, and in years of large production exceeding 1,000,000,000 bushels. Russia stands second in production with a crop of 464,000,000

bushels, closely followed by Austria-Hungary and France. The importance of the crop in the United States is small in comparison with its standing in European agriculture. The average crop is about 170,000,000 bushels, or considerably less than the crop of the United Kingdom.

The relative importance of the potato as a food crop may be judged by the fact that in Europe the crop for all the countries reported aggregates more bushels than the combined wheat and rye crops, and that the crop of that continent exceeds in volume the aggregate wheat crop of the world.

POTATOES.

Countries.	Period.	Production.	Imports.	Exports.	Net supply,
Europe:					
Austria-Hungary—		<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>
Austria	1881-'90	306,984,697	} 777,589	536,564	409,609,818
Hungary	1881-'90	102,384,096			
Belgium	1881-'90	99,486,505	2,783,649	679,692	101,590,462
Bulgaria	1882-'90	.....	2,390	2,875	.....
Denmark	{ 1880-'89	} 13,405,232	165,160	20,450	13,549,942
	{ 1881-'90				
France	1881-'90	396,746,138	779,613	4,634,850	392,890,906
Germany	1881-'90	891,732,040	1,709,366	6,538,079	886,903,327
Greece	{ 1889-'90	} 26,791,139	*190,680	379,225	26,602,591
Italy	{ 1881-'90				
Norway and Sweden—					
Norway	{ 1875	} 20,213,743	55,439	11,433	.....
	{ 1881-'90				
Sweden	1881-'90	48,640,330	216,044	14,535	48,841,839
Netherlands	{ 1880-'87	} 62,947,216	1,827,917	1,351,298	63,423,835
	{ 1881-'90				
Portugal	1881-'90	.....	105,593	219,246	.....
Roumania	{ 1891	} 1,639,927	*37,115	*12,117	.....
	{ 1880-'90				
Russia and Poland—					
Russia	{ 1883-'90	} 300,315,070	} *13,604	1,257,323	463,197,468
Poland	{ 1888-'90				
	{ 1888-'90				
Spain	1880-'90	.....	(*)	*74,859	.....
Switzerland	1888-'90	.....	*1,154,822	32,383	.....
United Kingdom	{ 1884-'90	} 228,093,397	5,334,665	.....	.....
	{ 1881-'90				
Asia:					
Japan	{ 1880-'87	} 1,589,884	.....	95,611	.....
	{ 1883-'90				
French Possessions—					
Annam	1889	.....	3,195	.....	.....
Cochin-China	{ 1888-'89	} 172,130	17,182	24,907	.....
	{ 1887-'89				
Tonkin	1888-'89				
Africa:					
Egypt	1884-'91	.....	217,130	.....	.....
British Possessions—					
Natal	1880-'87	163,400	.....	.....	.....
French Possessions—					
Gabon (Gulf of Guinea)	1883-'89	.....	2,780	*17	.....
Mayotte	1888-'89	1,578	.....	.....	.....
Nossi-Bé	{ 1888-'89	} *649	131	.....	.....
	{ 1886-'89				
Réunion	1882-'89	.....	.....	30,441	.....
Senegal	1884-'87	.....	13,164	660	.....
America:					
North America—					
Canada	1881-'90	.....	65,294	1,950,781	.....
United States	{ 1881-'88	} 169,809,053	3,033,504	465,059	172,377,408
	{ 1881-'90				
South America—					
Argentine Republic	1881-'90	.....	.....	15,910	.....
Chile	1880-'89	.....	.....	116,035	.....
British Guiana	1880-'87	.....	156,093	.....	.....
French Guiana	1882-'89	.....	9,439	.....	.....
Paraguay	1881-'87	.....	1,382	.....	.....
Uruguay	1881-'90	.....	57,757	7,111	.....

POTATOES—Continued.

Countries.	Period.	Production.	Imports.	Exports.	Net supply.
America—Continued.					
Islands—					
French Possessions—		<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>
Guadeloupe.....	1883-'88	} 55,460	14,505	*166	.....
Martinique.....	1882-'88		911,744	563	.....
St. Pierre and Miquelon.....	1885-'89		28,398	1,872	.....
Australasia:					
New South Wales.....	1881-'90	1,646,759	1,939,343	238,659	3,347,443
New Zealand.....	1883-'91	4,976,089	8,698	704,012	4,280,775
Queensland.....	1881-'90	439,496	486,198	4,159	921,535
South Australia.....	1880-'90	*784,117	169,819	46,607	907,329
Tasmania.....	1881-'90	1,975,221	*734	872,603	1,103,352
Victoria.....	1881-'90	6,012,899	51,752	873,021	5,191,630
Western Australia.....	1881-'90	} 44,628	35,628	.....	.....
	1885-'90		.....	.....	.....
Islands of the sea:					
French Possessions—					
New Caledonia.....	1887-'89	.....	29,893	.....	.....
Tahiti.....	1884-'89	.....	4,767	*114	.....

TOBACCO.

Trade in this product is reported in almost every country for which any records are extant. Its use in some form is almost universal, and in the more prominent countries it forms an important item in foreign trade. It is the third of America's contributions to agriculture, which has been accepted by those engaged in the cultivation of the soil wherever climatic conditions are favorable. With variations, the result of culture and differences in soil and climate, it is grown in almost every section of the world, its only limitations practically being the northern countries, where the season is not long enough to admit of proper growth. As far north as Sweden and as far south as the Argentine Republic part of the domestic consumption is supplied by domestic production.

In compiling the figures of commercial exchange of this product which are presented it has been the aim to give only imports and exports of the raw product, excluding manufactured leaf in all forms. It has frequently been difficult to draw the line of demarkation, but it is believed that the figures presented practically represent the raw product only. An examination of the statistics of each country in detail, presented later in this report, will show, however, whether the averages presented in the table below necessarily include manufactured tobacco in any form.

In Europe the cultivation of this product is mainly confined to the southern and eastern countries. Austria-Hungary leads with an annual product averaging 134,000,000 pounds, while Germany grows 90,000,000 pounds and France 44,000,000 pounds. In other countries the production is small and forms but a small proportion of the supply required for domestic use. Even France does not produce one half of

her supply and Germany but little more than that proportion. No country in Europe furnishes any considerable supply of tobacco beyond its own requirements and the annual net importation for that continent is almost 350,000,000 pounds. It is the great market for the surplus production of the world, and its demands are supplied by shipments from many sources. The United States furnishes the largest proportion, her net shipments averaging 230,000,000 pounds per annum. The rest is drawn from miscellaneous sources, the East and West Indies furnishing the bulk. Data of production and shipments from Cuba and adjacent producing islands are not available, but the Dutch colonies in the East Indies furnish nearly 50,000,000 pounds each year to the commercial supply. This source has developed rapidly during recent years, and nearly the whole production goes originally to Europe although a considerable amount of some particular grades finally reaches the United States.

An estimate of the production of the world which shall include all countries of considerable production can not be obtained. The crop is grown in many countries for which even the data of foreign trade are not available. In Europe the official estimates presented aggregate 299,720,452 pounds. Unofficial estimates for countries not officially presented might be presented as follows, relying upon the authority of *Übersichten der Weltwirtschaft*:

	Pounds.
Bulgaria	5, 114, 672
Greece.....	16, 931, 328
Russia.....	112, 487, 510
Servia.....	3, 306, 900
Switzerland	4, 409, 200
Finland	440, 920
Total.....	142, 690, 530

This makes the average crop of Europe, excluding Turkey and the small amount which may be produced in Denmark, Spain, and Norway, 442,410,982 pounds. Outside of Europe the trade records presented show that there is a considerable production which affects commercial supply in British India, Madura, Cambodia, Mexico, and Paraguay. In addition no official data are available for such producing districts as Cuba, China, Brazil, and other countries not included in the table below. In the face of these omissions it is manifestly impossible to frame a definite estimate of the world's crop.

Leaving out of consideration producing countries for which no data are available, the leading tobacco growing countries in the order of the prominence are United States, Austria-Hungary, Germany, Dutch East Indies, France, and Japan. Of these only two, United States and the Dutch colonies, produce more than their domestic requirements, although Japan apparently exports a small amount.

In the case of this product a sharp distinction must be made between net supply and net consumption. As the figures presented are only intended to cover the raw product, the supply for consumption might be materially changed by the addition of the trade in manufactured tobacco.

TOBACCO.

Countries.	Period.	Production.	Imports.	Exports.	Net supply.
Europe:					
Austria-Hungary—		<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>
Austria	1881-'90	7,507,479	27,945,311	10,786,005	151,096,053
Hungary	1881-'90	126,429,268			
Belgium	1881-'90	6,612,982	20,097,514	88,231	26,622,265
Bulgaria	1881-'90		222,492	*317,597	
Denmark	1881-'90		7,830,926	230,996	
France	1881-'90	43,741,733	49,116,206	282,621	92,575,318
Germany	1881-'90	90,882,651	81,676,462	6,102,553	166,456,560
Greece	1887-'90			6,522,631	
Italy	1881-'90	9,984,678	34,176,084		44,086,687
Norway and Sweden—					
Norway	1881-'90		3,955,017	285,079	
Sweden	1881-'90	1,501,399	7,384,356		8,885,755
Netherlands	1881-'90	6,275,372	33,608,736	4,598,586	35,285,522
Portugal	1881-'90		4,134,474	*176,605	
Roumania	1891	6,784,890	(*)	(*)	
Russia and Poland	1881-'90		2,637,340	*3,632,860	
Servia	1888-'90		834,686	515	
Spain	1880-'90		*38,209,039		
Switzerland	1885-'90		12,426,301	385,070	
United Kingdom	1881-'90		61,618,551	6,974,765	54,643,786
British Possessions—					
Cyprus	1880-'87		452,852		
Asia:					
Japan	1880-'87	41,324,055		2,448,056	
British Possessions—					
Ceylon	1880-'84	5,711,558		5,529,552	
India	1882-'90		558,276	11,289,434	
Penang	1881-'90		6,410,963	6,021,521	
Malacca	1880-'87		*216,272		
Dutch Possessions—					
Java	1880-'89	18,358,574			
Sumatra	1880-'89	24,006,534		*20,184,000	
Java and Madura	1882-'89			25,167,469	
French Possessions—					
Cambodia	1889		49,934	*1,961,109	
Cochin-China	1885-'89	4,987,329			
India	1887-'89				
India	1882-'89	3,259	(*)	(*)	
Tonkin	1888-'89		18,124		
Africa:					
Egypt	1884-'91		6,249,977		
British Possessions—					
Gold Coast	1880-'87		*453,729		
Natal	1880-'87	250,858			
Sierra Leone	1880-'87		1,318,707	442,256	
French Possessions—					
Gabon (Gulf of Guinea)	1883-'89		115,641	*6,229	
Mayotte	1885-'89	7,546			
Nossi-Bé	1884-'89	*6,391			
Réunion	1882-'89		62,318	*31,918	
Senegal	1884-'87		1,597,420	547,724	
America:					
North America—					
Canada	1881-'90		11,929,768	136,042	
Mexico	1884-'90			969,307	
Newfoundland	1880-'87		383,006		
United States	1881-'88	499,055,826	16,077,346	247,554,406	267,578,766
United States	1881-'90				
South America—					
Argentine Republic	1881-'90		9,955,510	181,009	
Chile	1880-'89		*318,995	*15,161	
British Guiana	1880-'87		715,481		
French Guiana	1882-'89		56,369		
Paraguay	1881-'87			6,925,661	
Uruguay	1881-'90		2,906,670		

TOBACCO—Continued.

Countries.	Period.	Production.	Imports.	Exports.	Net supply.
America—Continued.					
Islands—					
British Possessions—		<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>
Antigua.....	1880-'87	.....	71,924	.....	.....
Dominica.....	1880-'87	.....	138,803	.....	.....
Grenada.....	1880-'81	.....	71,456	.....	.....
Jamaica.....	1882-'84	.....	125,170	.....	.....
St. Christopher-Nevis	1880-'87	.....	*77,350	.....	.....
St. Lucia.....	1880-'87	.....	66,077	.....	.....
St. Vincents.....	1885-'87	.....	42,894	.....	.....
Tobago.....	1880-'87	.....	17,690	.....	.....
Trinidad.....	1880-'87	.....	814,463	.....	.....
French Possessions—					
Guadeloupe.....	1883-'89	} 29,121	345,688	*10,279	.....
Martinique.....	1882-'89		527,699	*50,702	.....
.....	1882-'88		.....	.....	.....
Australasia:					
New South Wales.....	1881-'90	2,559,155	705,442	71,662	3,192,935
New Zealand.....	1884-'91	.....	17,934	*1,646	.....
Queensland.....	1881-'90	} 123,542	142,621	.....	.....
.....	1888-'90		.....	.....	.....
South Australia.....	1881-'90	.....	426,610	8,595	.....
Tasmania.....	1889-'90	.....	329	.....	.....
Victoria.....	1881-'90	1,018,808	527,284	70,997	1,475,095
Western Australia.....	1885-'90	.....	37,861	*11,182	.....
Islands of the sea:					
British Possessions—					
Fiji.....	1880-'87	*11,503	.....	.....	.....
French Possessions—					
New Caledonia.....	1887-'89	.....	56,432	.....	.....
Tahiti.....	1889	.....	11,592	.....	.....

BUTTER.

The investigation relative to trade production and supply of dairy products shows that in but very few countries of the world are there any annual estimates of production of these products. The items of butter and cheese appear to more or less extent in the trade of almost every civilized country, but in the absence of any definite statements of domestic production it is not possible to present a showing of the net supply or the consumption per capita. Taking the continent of Europe as a whole, the production of butter is in excess of consumption, and there is an annual exportation from all the countries presented aggregating more than 75,000,000 pounds per annum. In only five countries is the product insufficient for the home consumption, and the net deficiency in these five countries amounts to a little more than 200,000,000 pounds per annum. In the United Kingdom alone this deficiency amounts to 184,000,000 pounds. A considerable proportion of the commercial supply is furnished by the countries of Northern Europe, supplemented by a moderate supply from Austria-Hungary and from Germany, a small amount from Italy, and a very large supply from France. The Netherlands lead in the exporting countries, with an annual net shipment averaging 115,000,000 pounds, while France stands second, with 60,000,000 pounds. On this basis the per capita shipment from the Netherlands is about 27 pounds, while the per capita importation of the United Kingdom, the largest importing country, is only something more than 5

pounds. Passing beyond the figures presented for Europe, it will be noted that while for the countries of Asia and Africa there are usually data of butter imported there are only occasional mentions of exports. It is probable that in these cases the greater part of the trade in this product is made up of imports, but it does not necessarily follow that there are no exports. In some cases the export trade is so small as to be grouped under the general heading of "All other articles," or the authorities from which the figures are taken may not profess to give any except the principal articles making up the trade. These facts are specifically pointed out for each country separately in the discussion of the detailed tables of each country which appear later in this report. In America the United States and Canada monopolize the shipments of butter, the trade of our northern neighbor being large, aggregating almost as much as one-half that of the United States. In Australasia the only colonies appearing as exporters are New Zealand and Victoria; but the recorded shipments exceed the recorded receipts for the colonies as a whole, showing that they have some export trade at least with outside countries, although the larger part of their trade is between themselves.

An examination of the figures presented will show some peculiar facts concerning the trade in this product. The countries of Europe show an aggregate importation of 281,512,988 pounds and an aggregate exportation of 357,229,652 pounds, leaving a net exportation for that continent of 75,716,664 pounds. Outside of Europe trade records for the principal countries of the world are presented, and the aggregate imports are shown to be 16,181,574 pounds against an exportation of 32,371,917 pounds, leaving a net exportation from non-European countries of 16,190,343, or a total net exportation for all the countries presented of 91,907,007 pounds. A portion of this apparent discrepancy may be explained upon the supposition that the few countries which are not presented are importing countries. Thus Brazil, China, Cuba, and the Central and South American countries undoubtedly absorb a portion of this net surplus; but it is equally apparent that this demand can not be sufficient to take the whole supply. Another small portion of the difference might be eliminated by a proper allowance for the fact that in a few countries other material, as lard or suet, are sometimes classed with butter in trade records.

The suggestions thrown out, however, are not sufficient to explain the full discrepancy. It is evident that something is exported as butter which is not butter, but which is not recorded in the importing country as butter. The assumption is that this something is oleomargarine or other imitation butter. The country selling the compound is anxious to cover up its identity and records it as butter. The country buying has no such inducement for concealment and it is entered in its proper character. An examination of the facts of foreign trade in these products, so far as they can be presented, will give color to this explanation of an apparent anomaly.

BUTTER.

Countries.	Period.	Production.	Imports.	Exports.
Europe:				
Austria-Hungary—		<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>
Austria.....	1881-'84	138,056,902	205,910	10,962,462
.....	1881-'90			
Hungary.....	.....		
Belgium.....	1881-'90		20,523,880	8,772,706
Bulgaria.....	1881-'90		*32,437	296,024
Denmark.....	1881-'90		11,180,855	51,064,096
France.....	1882	165,016,991	14,304,668	74,611,064
.....	1881-'90			
Germany.....	1881-'90		12,351,492	25,961,149
Greece.....	1887-'90		532,543	6,872
Italy.....	1890	64,953,107	701,328	6,784,723
.....	1881-'90			
Norway and Sweden—				
Norway.....	1881-'90		7,154,763	3,449,357
Sweden.....	1885-'90		5,313,712	30,101,505
Netherlands.....	1881-'90		7,737,928	122,576,584
Portugal.....	1881-'90		2,607,634	*115,917
Romania.....	1880-'90		*203,258	*180,251
Russia and Poland.....	1881-'90		*10,810	10,014,225
Spain.....	1880-'90		*487,905	*469,222
Switzerland.....	1885-'90		*3,460,340	1,258,753
United Kingdom.....	1886-'90		*194,512,461	*10,004,742
British Possessions—				
Cyprus.....	1880-'87		191,064	.....
Asia:				
Japan.....	1883-'90		182,540	.....
British Possessions—				
India.....	1881-'90		224,664	.....
Dutch Possessions—				
Java.....	1881-'90		711,204	.....
French Possessions—				
Annam.....	1888-'89		1,001	.....
Cambodia.....	1887-'89		1,483	.....
Cochin-China.....	1888-'89		86,125	*573
Tonkin.....	1888-'89		67,314	.....
Africa:				
Egypt.....	1884-'91		1,731,743	.....
British Possessions—				
Cape of Good Hope.....	1880-'87		1,005,249	.....
Natal.....	1882-'84		202,085	.....
French Possessions—				
Gabon (Gulf of Guinea).....	1885-'89		9,010	.....
Nossi-Bé.....	1886-'89		*22,397	.....
Réunion.....	1882-'89		55,684	*6,559
Senegal.....	1884-'87		19,343	1,566
America:				
North America—				
Canada.....	1881-'90		742,249	7,924,697
Mexico.....	1886-'90		.....	361
Newfoundland.....	1881-'90		2,019,763	.....
United States.....	1881-'90		*196,226	18,827,211
South America—				
Argentine Republic.....	1885-'90		*28,822	.....
Chile.....	1880-'89		13,369	88,982
British Guiana.....	1881-'90		670,408	.....
French Guiana.....	1882-'89		83,406	.....
Paraguay.....	1881-'87		3,665	.....
Islands—				
British Possessions—				
Antigua.....	1880-'87		74,141	.....
Bahamas.....	1880-'87		90,022	.....
Barbadoes.....	1881-'90		866,435	.....
Bermudas.....	1880-'87		154,728	.....
Dominica.....	1880-'87		40,276	.....
Grenada.....	1880-'87		117,217	.....
Jamaica.....	1881-'90		643,111	.....
St. Christopher-Nevis.....	1880-'87		109,619	.....
St. Lucia.....	1880-'87		84,670	.....
St. Vincent.....	1880-'87		69,526	.....
Trinidad.....	1880-'87		716,046	.....
Turks Island.....	1880-'81		14,730	.....
Dutch Possessions—				
Curaçao.....	1882-'86	3,904	.....	.....
French Possessions—				
Guadeloupe.....	1882-'89		517,443	14,766
Martinique.....	1882-'88		672,307	25,755
St. Pierre and Miquelon.....	1882-'89		223,691	103,047

BUTTER—Continued.

Countries.	Period.	Production.	Imports.	Exports.
Australasia:		<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>
New South Wales	1881-'90	} 18, 279, 771	1, 971, 064	699, 741
New Zealand	1891		9, 536	2, 886, 598
Queensland	1882-'91		811, 801	9, 349
South Australia	1881-'90		346, 618	322, 970
Victoria	1881-'90		147, 459	1, 458, 242
Western Australia	1885-'90		346, 480	.....
Islands of the sea:				
French Possessions—				
New Caledonia	1887-'89		41, 369	.....
Tahiti	1887-'89		36, 135	*1, 500

CHEESE.

Data of production of cheese are available for only a few countries, and then generally in fragmentary shape. It forms an important item in the food supply of many countries and figures extensively in international trade. It is especially important in the European dietary, in many districts being largely a substitute for meats. Europe, however, does not produce sufficient for her own requirements, the aggregate imports for the countries presented being about 303,000,000 pounds each year, against an aggregate exportation of about 173,000,000 pounds, leaving 130,000,000 pounds to be drawn each year from non-European sources. In addition to this deficiency, there is an excess of importation, small for each particular country but large in the aggregate, in most of the other countries of the world, outside of North America, for which records are available. There are only two prominent sources of supply, the United States, with a net exportation of nearly 100,000,000 pounds each year, and Canada, with more than 70,000,000 pounds.

The United Kingdom absorbs the greater portion of the surplus production of other countries, with an annual net importation of more than 200,000,000 pounds. Besides the trade of the United States and Canada already mentioned, the only countries prominent as sources of supply are the Netherlands and Switzerland, although the large production of New Zealand leaves a surplus for shipment from the Australian colonies of something more than 1,000,000 pounds.

CHEESE.

Countries.	Period.	Production.	Imports.	Exports.
Europe:				
Austria-Hungary—				
Austria.....	1881-'84	141, 149, 625	3, 845, 087	1, 776, 202
Hungary.....	1881-'90			
Belgium.....	1881-'90		10, 915, 589	6, 886, 214
Bulgaria.....	1881-'90		*73, 016	3, 165, 019
Denmark.....	1881-'90		1, 438, 075	325, 740
France.....	1882	252, 859, 235	34, 711, 109	10, 097, 657
Germany.....	1881-'90			
Greece.....	1887-'90		11, 972, 521	7, 375, 930
Italy.....	1890	262, 286, 209	21, 214, 337	9, 585, 160
Norway and Sweden—	1881-'90			
Norway.....	1881-'90		619, 779	213, 682
Sweden.....	1881-'90		870, 975	349, 045
Netherlands.....	1881-'90		652, 253	64, 334, 539
Portugal.....	1881-'90		882, 702	*92, 025
Roumania.....	1880-'90		*481, 487	*2, 905, 135
Russia and Poland.....	1888-'90		1, 293, 556	2, 039, 301
Spain.....	1880-'90		*2, 423, 975	*53, 841
Switzerland.....	1885-'90		2, 825, 379	56, 163, 839
United Kingdom.....	1881-'90		208, 731, 667	7, 412, 843
British Possessions—				
Cyprus.....	1880-'87			290, 853
Asia:				
Japan.....	1883-'90		45, 445	
British Possessions—				
India.....	1881-'90		566, 261	
French Possessions—				
Annam.....	1888-'89		927	
Cochin-China.....	1888-'89		72, 365	304
India.....	1882-'83		5, 083	(*)
Tonkin.....	1888-'89		66, 953	
Africa:				
Egypt.....	1884-'91		3, 498, 715	
British Possessions—				
Cape of Good Hope.....	1880-'84		1, 170, 350	
French Possessions—				
Gabon (Gulf of Guinea).....	1883-'89		6, 917	
Réunion.....	1882-'89		74, 496	*7, 482
Senegal.....	1884-'87		73, 639	2, 289
America:				
North America—				
Canada.....	1881-'90		6, 778, 224	79, 341, 633
Mexico.....	1884-'90			3, 666
United States.....	1881-'90		*7, 373, 239	104, 207, 285
South America—				
Argentine Republic.....	1881-'90		2, 510, 573	19, 239
Chile.....	1880-'89		146, 571	280, 860
British Guiana.....	1880-'87		249, 386	
French Guiana.....	1882-'89		110, 587	
Paraguay.....	1881-'87		20, 558	
Uruguay.....	1881-'90		509, 510	38, 672
Islands—				
British Possessions—				
Bermuda.....	1880-'87		*61, 981	
St. Christopher-Nevis.....	1880-'81		30, 903	
Dutch Possessions—				
Curaçao.....	1882-'86	8, 349	(*)	
French Possessions—				
Guadeloupe.....	1882-'89		141, 532	*470
Martinique.....	1882-'83		156, 972	*229
St. Pierre and Miquelon.....	1885-'89			3, 933
Australasia:				
New South Wales.....	1881-'90		556, 654	226, 354
New Zealand.....	1891	6, 975, 698	11, 119	2, 637, 591
Queensland.....	1883-'91			
South Australia.....	1881-'90		1, 022, 481	3, 888
Tasmania.....	1881-'90		648, 966	85, 486
Victoria.....	1885-'90		19, 993	(*)
Western Australia.....	1881-'90		109, 474	860, 279
Western Australia.....	1885-'90		146, 695	
Islands of the sea:				
French Possessions—				
New Caledonia.....	1887-'89		57, 870	
Tahiti.....	1886-'89		10, 763	

COTTON.

According to generally accepted estimates, the United States produces more than one-half of all the cotton grown in the world, and about 75 per cent of the total amount which annually enters into civilized commerce. Outside of the United States and Japan there are no official data of production for any country prominent as a source of supply. A very large portion of the annual crops is grown in countries about the resources of which but little is known.

The plant can be grown in various sections of the world lying between the parallels of 35° north and south latitude, and this belt includes a large part of the land surface of the globe. It is grown to some extent by almost every people dwelling on this portion of the earth's surface, though its principal habitat now seems to be between 20° and 35° north latitude. Within these lines are the cotton districts of the United States, Northern Mexico, Egypt, Northern Africa, and of Asia, except the extreme southern portions of the India and Malay peninsulas. The area on which a fiber of some quality can be grown is practically limited only by the requirement of the product. It is grown in so many countries and under such different conditions that it is impossible to determine with exactness the annual product, but it is easy to trace out and record that portion which enters into the commerce and consumption of civilized nations.

In the absence of official data it has been thought best to present a commercial estimate of the world's crop, and the careful compilation of Mr. Thomas Ellison, of Liverpool, has been selected. Except in the case of the United States, the estimates are necessarily based upon the known facts of exportation, population, and assumed consumption per capita. The table relates to the situation in 1884. The details are, in bales of 400 pounds—

	Bales.	Per cent.
United States.....	7,035,000	55.95
South America, West Indies, etc.....	300,000	2.38
East Indies.....	2,450,000	19.48
China.....	1,425,000	11.33
Japan.....	132,000	1.05
Turkey and Persia.....	120,000	.95
Asiatic Russia.....	100,000	.80
Egypt.....	625,000	4.97
Africa (Egypt excepted).....	375,000	2.99
Italy and Greece.....	10,000	.08
Australia, Fiji, etc.....	2,000	.02
Total.....	12,574,000	100.00

Practically all the cotton which is consumed in the civilized world is drawn from four sources—United States, India, Egypt, and Brazil. The production of these four countries alone is of importance in considering the world's supply. In order that these data may be brought up

to a more recent date, estimates of the production of the four countries during the years 1888 to 1890 have been prepared. The quantities have been reduced to uniform bales of 400 pounds.

	1890.	1889.	1888.
	<i>Bales.</i>	<i>Bales.</i>	<i>Bales.</i>
Brazil	364,707	329,166	453,348
Egypt	946,856	740,047	633,098
India	3,005,253	3,314,593	2,907,046
United States	10,790,110	9,057,069	8,593,521
Total	15,106,926	13,440,875	12,587,013

During the past few years an effort has been made to grow cotton in Russia, but so far as can be definitely ascertained the culture has as yet hardly more than passed the experimental stage. It is known that there are areas in certain portions of the empire in Asia in which, apparently, the conditions of soil and climate are favorable, and the Government is interested in the experiments. In a recent number of a technical journal in Europe it is stated that the contemplated railroad from Samarcand to Kliskan, in Central Asia, will open up the Russian provinces in which cotton is grown. The same journal says:

Last year there were 3,000,000 poods (108,339,000 pounds) of Russian cotton and as much of Asiatic cotton called American. In other words, in the space of ten years since the first attempt, Russia has succeeded in furnishing within her own territory one-third of the cotton necessary to her. By guaranteeing a regular growth in its cotton-plant production it would perhaps obtain an exportation equivalent to the former importation.

This rosy view appears to have some confirmation from figures of the cotton trade of the United States with Russia. During the four years, 1881 to 1884 inclusive, we exported annually an average of 124,117,441 pounds of cotton to that country. In the period 1885 to 1888 the average was 86,014,804 pounds, and it fell to 75,889,614 pounds in the period 1889 to 1892. The decline was from 134,000,000 pounds in 1881 to 67,000,000 pounds in 1892, a fall of 50 per cent. While the picture presented in the extract given may be overdrawn, our own declining trade gives some warrant for it, and it is possible that in the future our cotton planters will meet a competition from the same source already confronting our wheat growers.

Europe and the United States furnish the consuming market for the surplus production of the world, though Canada and Japan absorb between 25,000,000 and 30,000,000 pounds each. According to the official records presented below, Europe, excluding the trade of Turkey, imports each year an average of 3,478,000,000 pounds, and re-exports 493,000,000 pounds, leaving for annual consumption nearly 3,000,000,000 pounds. Of this the United Kingdom alone demands one-half, with an annual supply of 1,490,000,000 pounds. The United States ranks second as a consuming country, using 1,134,000,000 pounds. During later years of the period under consideration there have been some

changes in the relative consumption of the United Kingdom, the Continent, and the United States. According to the reliable records of Ellison & Co., of Liverpool, the United Kingdom now consumes about 37 per cent of the cotton of the world which is recorded in the commercial supply, the rest of Europe 38 per cent, and the United States 25 per cent. The proportion of the latter country is rapidly growing, and ere many decades the United States should attain first rank as a manufacturing country. Fifty years ago the proportions were materially different. During the period from 1841 to 1845 the United Kingdom required 55 per cent of the supply, the Continent 30 per cent, and the United States only 15 per cent. Gradually the supremacy is being wrested from Great Britain.

The United States possesses natural advantages, which should make it the leading cotton manufacturing as it is the leading cotton growing country of the world. The raw product is produced at home, is available without the expense of long-distance transportation, while the inventive genius of our people insures the best machinery and methods. Our planters will continue to supply the demand of the Old World for the raw product, but it will be a secondary object, the demand for domestic consumption being first and more profitable. Cotton goods of American manufacture should be found in every market of the world, and especially should we monopolize this trade in our sister republics of North and South America.

COTTON.

Countries.	Period.	Production.	Imports.	Exports.	Net supply.
		<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>
Europe:					
Austria Hungary	1881-'90	.....	218,924,143	32,558,657	186,365,486
Belgium	1881-'90	.....	49,291,597	.....	49,291,597
Bulgaria	1881-'90	.....	434,832	*172	.....
Denmark	1881-'90	.....	1,978,793	1,924,266	.....
France	1881-'90	.....	307,686,359	61,360,763	246,325,596
Germany	1881-'90	.....	440,592,837	*57,922,558	382,670,279
Italy	1881-'90	.....	161,840,127	37,656,530	124,183,597
Norway and Sweden—					
Norway	1881-'90	.....	5,138,358	16,330	5,122,028
Sweden	1881-'90	.....	25,036,952	.....	25,036,952
Netherlands	1881-'90	.....	81,150,689	55,278,588	25,872,101
Portugal	1881-'90	.....	10,657,240	30,131	10,627,109
Roumania	1880-'90	.....	*905,736	*1,203	.....
Russia and Poland	1881-'90	.....	276,191,079	*140,853	.....
Servia	1888-'90	.....	1,515,339	925,209	.....
Spain	1880-'90	.....	*108,293,368	*18,859	108,274,509
Switzerland	1885-'90	.....	54,256,713	336,606	53,920,107
United Kingdom	1881-'90	.....	1,734,169,326	243,549,443	1,490,619,883
British Possessions—					
Cyprus	1880-'87	2,872,682	.....	852,082	.....
Malta	1880-'87	1,843,940	.....	.....	.....
Asia:					
China	1888-'90	.....	18,652,711	44,704,578	.....
Corea	1885-'90	.....	*176,239	*511,822	.....
Japan	1880-'87	.....	.....	.....	.....
1883-'90	.....	137,640,543	29,200,212	60,441	166,780,314
British Possessions—					
Ceylon	1880-'84	15,650	.....	.....	.....
India	1881-'90	.....	6,979,840	605,409,616	.....
Penang	1880-'87	.....	*1,732,107	*2,523,911	.....
French Possessions—					
Cambodia	1887-'89	.....	.....	*4,248,533	.....
Cochin-China	1885-'89	.....	.....	.....	.....
1887-'89	.....	221,475	.....	2,772,060	.....
India	1880-'89	1,996	(*)	.....	.....
Tonkin	1888-'89	.....	*24,793	247,148	.....

COTTON—Continued.

Countries.	Period.	Production.	Imports.	Exports.	Net supply.
		<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>
Africa:					
Egypt.....	1884-'91			317,070,774	
British Possessions—					
Lagos.....	1883-'90			314,562	
French Possessions—					
Senegal.....	{ 1887-'89 } 1884-'87	32,334	6,756		
America:					
North America—					
Canada.....	1881-'90		26,414,671		
United States.....	1881-'90	*3,261,589,480	5,608,048	2,133,336,348	1,133,861,180
South America—					
Dutch Guiana.....	1880-'89			6,083	
Islands—					
British Possessions—					
Bahamas.....	1880-'87			61,820	
Grenada.....	1880-'87	*287,830		*301,803	
French Possessions—					
Guadeloupe.....	{ 1883-'89 } 1884-'88	91,974	2,592		
Australasia:					
New South Wales.....			(*)	(*)	
New Zealand.....	1883-'91		139,588	127,196	
Queensland.....	1881-'90	53,118		66,982	
Victoria.....	1881-'90		155,627	18,846	
Islands of the sea:					
British Possessions—					
Fiji.....	1880-'87	*609,440		(*)	
French Possessions—					
Tahiti.....	1883-'89		620,226	*626,549	

WOOL.

This product constitutes one of the most important items of the world's commerce in raw products of agriculture. The figures presented, as will be seen by reference to the detailed tables by countries, are intended to cover raw wool in all forms, in the grease, cleaned, scoured, etc., but excluding that which has advanced to any stage of final manufacture. In a few instances it has been impossible to separate such primary manufacture as wool batting and dyed wool, but the amount of these products, as included, is too small to materially affect the deductions to be drawn from the table.

Data of production are fragmentary, and available in any form for but few countries. No country in Europe is prominent as a source of supply beyond domestic requirements, except Russia. Spain has a net exportation of about 10,000,000 pounds per annum, but the supply from other countries is generally small.

A few of the leading countries of Europe and the United States furnish the final market for the surplus production of wool growing countries. In Europe, the countries depending to a large extent upon outside sources for their wool supply are, in order of prominence, United Kingdom, France, Germany, and Belgium. The remainder of the continent, with the exception of Austria-Hungary, which has a net importation of about 30,000,000 pounds, practically supplies itself. The total imports recorded for the countries of Europe average 1,419,000,000 pounds per annum, and the total exports 587,000,000 pounds, a net deficiency of

about 832,000,000 pounds, which, with the deficiency of 90,000,000 pounds in the United States, makes the wool market of the world. More than one-half of the exports of Europe are shipments from the United Kingdom representing the surplus production of her colonies, gathered in her enormous trade and reshipped to the consuming countries.

The wool to supply the demand for nearly 1,000,000,000 pounds referred to is drawn from various sources, mainly from countries where agricultural development is largely along the lines of pastoral industry. The Australasian colonies, Argentine Republic, the British Possessions in Asia and Africa, China, Uruguay, and some other out-of-the-way countries are the sources of supply of commercial wool. The Argentine Republic is the leading exporting source, with an annual shipment of 266,000,000 pounds, with New South Wales second, furnishing nearly 200,000,000 pounds. The aggregate volume of imports for all the countries for which data are presented is 1,612,863,977 pounds, and of exports 1,563,173,196. This leaves an average of slightly more than 50,000,000 pounds each year to be supplied in small amounts by obscure countries whose commerce is not recorded, and by the few South American countries which are not included in this review. This close balancing of imports and exports is gratifying, indicating, as it does, that practically the whole wool trade of the world is represented in the tabulations presented in this report. It will, of course, be remembered that in the enormous recorded imports or exports there is much duplication, because in the foreign trade produce reexported, as well as domestic produce, is included. The same wool may appear credited as the shipment of a number of countries.

It is interesting to trace the sources of supply and thereby the general quality of the wool used in the manufactures of the great wool consuming countries. The following statement presents the net imports, home production, and available supply of wool for the four countries of largest consumption:

Country.	Net imports.	Domestic production.	Supply.
	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>
France	293,395,516	124,803,000	423,198,516
United Kingdom	273,021,515	147,475,000	420,496,515
United States	123,373,603	285,000,000	411,373,603
Germany	263,670,160	54,894,000	318,564,160

These figures pertain to the year 1890, the statement of imports being from official sources, that of production from estimates presented in the wool book of the National Association of Wool Manufacturers except for the United States where the estimate of the Department of Agriculture is used. It appears that the United States leads in the proportion of domestic wool used with 69 per cent, followed by the United Kingdom with 35 per cent, France with 29, and Germany with

17 per cent. This indicates plainly the superior quality of the wool used in the United States. Our domestic wools are from high grade Merino and English breeds, and the infusion of imported wools is small. As already pointed out the commercial supply of wool is drawn from countries of primitive agriculture, produced in hot climates and sheared from flocks not up to the domestic standard. Such wool is apt to be short, harsh, and kempy, and of weak and uneven staple, and the large proportion of this class used in other countries necessarily lowers the general standard of excellence of the total supply.

It will be seen that but few countries attempt to give an independent estimate of their annual wool production. A combination of official and commercial estimates makes the total product of the world at the present time about 2,500,000,000 pounds. The wool book of the National Association of Wool Manufacturers presents a compilation of this character for 1891, which is reproduced as follows:

Countries of production.	1891.
	<i>Pounds.</i>
Europe:	
Russia	291,500,000
Great Britain and Ireland.....	147,475,000
France	124,803,000
Spain	66,133,000
Germany.....	54,894,000
Hungary.....	43,146,000
Italy	21,385,000
Austria	11,155,000
Portugal	10,302,000
Belgium	4,409,000
Sweden	3,307,000
All other Europe.....	8,818,000
Total Europe	762,589,000
North America:	
United States	307,100,000
British North American Provinces	12,000,000
South America:	
Argentine Republic (exports, 1885).....	376,700,000
Brazil.....	1,875,000
Peru.....	6,700,000
Uruguay (exports, 1884).....	42,000,000
Australasia	550,000,000
Asia:	
British East Indies (exports, 1885-'86)	72,000,000
Russia	66,000,000
Turkey, Asiatic, and Persia (estimated), Afghanistan, Beluchistan, and Thibet, exports to India.....	12,200,000
Sivas, Asiatic Turkey.....	8,300,000
Mesopotamia	31,555,000
Persia (exports to India).....	3,470,000
Africa:	
Cape Colony (exports, 1885).....	128,681,600
Natal (exports, 1885)	
Egypt.....	2,800,000
All other countries	48,000,000
Total production.....	2,456,773,600

[NOTE.—The discrepancies between the sum of the items and the totals given appear in the original table.]

A comparison of this table, with the official data presented in this report, shows that the estimate for France is evidently considerably too high, and the same is true of the United States. In the details there are some evident inaccuracies, but it probably is as fair a statement as can be found.

Countries.	Period.	Production.	Imports.	Exports.
Europe:				
Austria-Hungary—		<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>
Austria.....	{ 1881-'84 1881-'90 }	{ 11, 136, 978 }	{ 55, 789, 938 }	23, 531, 482
Hungary.....	.....	.....	.....	.....
Belgium.....	1881-'90	.....	95, 224, 993	6, 453, 814
Bulgaria.....	1881-'90	.....	352, 130	996, 315
Denmark.....	1881-'90	.....	2, 806, 870	3, 813, 462
France.....	{ 1880-'89 1881-'90 }	{ *104, 171, 617 }	377, 555, 049	88, 279, 027
Germany.....	1881-'90	.....	238, 284, 852	25, 576, 887
Greece.....	1887-'90	.....	.....	452, 173
Italy.....	{ 1890 1881-'90 }	{ 26, 393, 831 }	21, 577, 809	3, 094, 222
Norway and Sweden—	.....	.....	.....	.....
Norway.....	1881-'90	.....	1, 427, 201	49, 702
Sweden.....	1881-'90	.....	4, 396, 949	59, 127
Netherlands.....	1881-'90	.....	33, 734, 145	30, 172, 808
Portugal.....	1881-'90	.....	7, 692, 428	1, 688, 069
Roumania.....	1880-'90	.....	*65, 486	*5, 941, 347
Russia and Poland	1881-'90	.....	*8, 464, 755	58, 882, 886
Serv'a.....	1888-'90	.....	229, 921	.....
Spain.....	1880-'90	.....	*3, 463, 703	*13, 335, 164
Switzerland.....	1885-'90	.....	6, 967, 455	2, 525, 590
United Kingdom	1881-'99	.....	561, 488, 264	322, 048, 171
British Possessions—	.....	.....	.....	.....
Cyprus.....	1880-'87	.....	.....	450, 341
Asia:				
China.....	1888-'90	.....	.....	12, 564, 889
Japan.....	1883-'90	.....	710, 756	17, 300
British Possessions—	.....	.....	.....	.....
India.....	1881-'90	.....	3, 300, 672	30, 320, 319
Africa:				
British Possessions—	.....	.....	.....	.....
Cape of Good Hope	1881-'90	.....	.....	48, 652, 164
Natal.....	1881-'90	.....	.....	20, 695, 273
French Possessions—	.....	.....	.....	.....
Réunion.....	1884-'88	.....	3, 254	*1, 501
America:				
North America—				
Canada.....	1881-'90	.....	9, 354, 097	1, 269, 283
Mexico.....	1884-'90	.....	.....	1, 573, 360
United States.....	1881-'90	280, 700, 000	93, 194, 903	4, 608, 477
South America—				
Argentine Republic	1881-'90	.....	.....	266, 802, 527
Chile.....	1880-'89	.....	7, 564	4, 523, 242
French Guiana.....	1885-'89	.....	7, 820	.....
Uruguay.....	1881-'90	.....	.....	63, 661, 058
Islands—				
Dutch Possessions—	.....	.....	.....	.....
Curaçao.....	{ 1882-'86 1885-'89 }	{ 12, 074 }	.....	12, 686
Australasia:				
New South Wales	1881-'90	.....	9, 717, 347	201, 773, 324
New Zealand.....	1883-'91	.....	26, 994	90, 011, 426
Queensland.....	1881-'90	.....	.....	42, 494, 339
South Australia.....	1881-'90	43, 602, 400	15, 130, 353	56, 802, 831
Tasmania.....	{ 1884-'89 1881-'90 }	{ 7, 746, 447 }	.....	8, 085, 414
Victoria.....	1881-'90	.....	61, 861, 766	115, 661, 768
Western Australia	1881-'90	.....	(^c)	6, 244, 787
Islands of the sea:				
British Possessions—	.....	.....	.....	.....
Fiji.....	1880-'81	.....	.....	13, 440
French Possessions—	.....	.....	.....	.....
Tahiti.....	1883-'89	.....	*27, 103	33, 201

FLOUR.

The different classifications which exist in the official records of the various countries make it difficult to present a satisfactory compilation of the flour trade of the world. In the statement which is presented the aim has been to give wheat flour only where that division is possi-

ble, but in many cases the figures include wheat and rye and flour of wheat and other cereals indiscriminately. The detailed statements by countries may be consulted in order to ascertain the character of the flour included in any particular case.

The United States is the great source of flour supply, the exports of wheat flour from this country exceeding the net exports of flour of all kinds from all other surplus countries. Next in order of prominence are Austria-Hungary and Germany, but in the case of both of these countries the figures given are presumed to include flour of all kinds. The United Kingdom is the great market with an average net importation of 1,660,000,000 pounds of wheat flour, equivalent, on the generally accepted basis, to about 38,000,000 bushels of grain. The net exports from the United States are somewhat larger, being equivalent in grain to about 42,000,000 bushels. The milling industry in Australasia is not yet sufficiently developed to make the colonies prominent as a source of supply, the annual production in excess of requirement being only about 53,000,000 pounds, or 1,200,000 bushels of grain.

FLOUR.

Countries.	Period.	Imports.	Exports.
		<i>Pounds.</i>	<i>Pounds.</i>
Europe:			
Austria-Hungary	1881-'90	21,262,706	349,737,502
Belgium	1881-'90	142,451,781	140,876,244
Bulgaria	1881-'90	544,714	5,072,191
Denmark	1881-'90	5,388,014	76,652,653
France	1881-'90	69,210,485	21,976,511
Germany	1881-'90	*36,427,420	268,400,570
Greece	1889-'90	4,109,154	.....
Italy	1881-'90	17,026,699	9,695,346
Norway and Sweden—			
Norway	1881-'90	35,119,868	523,516
Sweden	1881-'90	*113,323,045	*13,508,471
Netherlands	1881-'90	104,593,907	27,815,653
Portugal	1881-'90	6,277,730	1,382,922
Roumania	1880-'90	*6,407,765	*21,544,220
Russia and Poland	1888-'90	*5,540,529	77,924,704
Servia	1888-'90	1,513,339	925,209
Spain	1880-'90	*39,033,696	*57,775,064
Switzerland	1887-'90	*55,375,915	*10,362,667
United Kingdom	1881-'90	1,699,946,013	32,031,082
British Possessions—			
Cyprus	1880-'87	3,824,329	.....
Asia:			
Corea	1886-'90	*186,030	.....
Japan	1883-'90	*4,547,014	*1,685,951
British Possessions—			
Ceylon	1885-'87	3,973,237	.....
India	1881-'90	2,214,649	*22,937,708
Penang	1885-'87	6,529,067	2,964,400
Dutch Possessions—			
Java	1881-'90	9,937,896	.....
French Possessions—			
Annam	1888-'89	64,156	.....
Cochin-China	1888-'89	1,788,273	.....
India	1887	13,062	.....
Tonkin	1888-'89	7,147,728	.....
Africa:			
Egypt	1884-'91	*19,980,053	7,708,623
British Possessions—			
Cape of Good Hope	1881-'90	13,388,640	.....
Mauritius	1880-'87	10,238,683	.....
Natal	1881-'87	16,280,049	.....
French Possessions—			
Mayotte	1885-'89	*20,123	.....
Nossi-Bé	1886-'89	29,861	.....
Réunion	1882-'89	1,496,814	363,359

FLOUR—Continued.

Countries.	Period.	Imports.	Exports.
America:			
North America—		<i>Pounds.</i>	<i>Pounds.</i>
Canada.....	1881-'90	54,668,379	70,368,390
Mexico.....	1884-'90	.....	31,324
Newfoundland.....	1881-'90	66,821,770	.....
United States.....	1881-'90	390,373	1,884,489,667
South America—			
Argentine Republic.....	1881-'90	*43,134	11,088,375
Chile.....	1880-'89	58,269	19,120,882
British Guiana.....	1881-'90	27,346,940	*3,087,784
French Guiana.....	1882-'89	2,597,878	.....
Paraguay.....	1881-'87	1,546,875	*98,343
Uruguay.....	1881-'90	1,760,305	11,151,067
Islands—			
British Possessions—			
Antigua.....	1880-'87	3,478,388	.....
Bahamas.....	1880-'87	5,116,433	.....
Barbadoes.....	1881-'90	*15,187,472	.....
Bermuda.....	1880-'81	3,031,298	.....
Dominica.....	1880-'87	1,517,606	.....
Grenada.....	1880-'87	2,834,454	.....
Jamaica.....	1881-'90	25,604,284	.....
Montserrat.....	1880-'87	474,295	.....
St. Christopher-Nevis.....	1880-'87	4,800,481	.....
St. Lucia.....	1880-'87	1,878,758	.....
St. Vincent.....	1880-'87	1,715,441	.....
Tobago.....	1880-'87	607,502	.....
Turks Island.....	1880-'87	517,783	.....
Virgin Islands.....	1880-'87	240,156	.....
French Possessions—			
Guadeloupe.....	1882-'89	8,982,194	222,740
Martinique.....	1882-'88	10,635,716	96,556
St. Pierre and Miquelon.....	1882-'89	*5,450,444	2,258,171
Australasia:			
New South Wales.....	1881-'90	121,368,016	36,207,416
New Zealand.....	1883-'91	1,470,811	14,502,148
Queensland.....	1881-'90	78,929,234	276,886
South Australia.....	1881-'90	60,002	148,736,882
Tasmania.....	1881-'90	1,015,167	*24,610
Victoria.....	1881-'90	2,575,560	65,349,950
Western Australia.....	1885-'90	6,986,784	.....
Islands of the sea:			
French Possessions—			
New Caledonia.....	1387-'89	9,011,670	.....
Tahiti.....	1883-'89	2,622,056	*134,302

SUPPLY PER HEAD.

The average net supply and the supply per head of the various products considered in this report can only be definitely stated for a few countries. The difficulty in the way of a complete statement is usually lack of data of production. In the tables presented the facts are all drawn from the official statements already presented. The population used is the average of the two periods presented in the table of population. This may not be the exact average population of the period, but it is close enough for all practical purposes. The net supply, of course, is the production as affected by the balance of trade.

Wheat.—In calculating the average consumption per head of wheat allowance must be made for the trade in flour. In the statement given only wheat in the grain is considered. The quantity stated, therefore, only means the supply per head available for consumption, for seed, and for manufacture into flour to be shipped abroad. To reach the actual consumption per head due allowance must be made for the two latter uses suggested, with an amount, perhaps insignificant, used in

the manufacture of other than food stuffs. Again, there is always a considerable amount of grain and flour lost each year through fire and marine disaster that must be accounted for in the consumption. Some of these allowances are small, but they affect slightly the actual ratio of consumption.

Foreign trade in flour and seed requirements are the two principal factors in such a calculation. The record of flour shipments, as already pointed out, are imperfect, but few countries separating flour of wheat from flour of other grains. The countries for which this distinction can be made have been segregated and the following statement prepared, showing as near as possible the actual amount of wheat available for consumption. As already pointed out, there are other uses, but the amount involved is small and it has been disregarded in the calculation.

Countries.	Net supply of grain.	Net imports of flour in wheat.	Net exports of flour in wheat.	Seed re- quirements.	Wheat available for consumption.	
					Total.	Per capita.
	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bush.</i>
Denmark	6, 183, 284	.....	1, 619, 651	194, 000	4, 369, 633	2. 1
France	346, 859, 145	1, 073, 499	.....	25, 828, 000	322, 104, 644	8. 5
Russia	153, 252, 480	.....	3, 090, 531	51, 850, 000	98, 311, 949	1. 1
United Kingdom.....	183, 204, 199	37, 907, 157	.....	3, 796, 000	217, 315, 356	6. 0
United States.....	356, 422, 708	.....	42, 820, 439	53, 912, 900	259, 690, 269	4. 6
Canada	37, 481, 839	.....	356, 818	3, 600, 000	33, 525, 041	7. 3
Australasia.....	28, 116, 017	.....	1, 197, 553	5, 727, 000	21, 191, 464	6. 5

The first three columns are deduced from official data elsewhere presented, the imports and exports of flour being reduced to an equivalent in wheat, at the rate of 44 pounds of flour to each bushel. The seed requirement is purely an estimate, except in case of the United States, where the figures presented are an average of the annual estimates of the amount used for seed, presented by the U. S. Department of Agriculture. In making this estimate for the other countries the average acreage is determined as closely as possible from the data presented in this report, and to this is applied an estimate of 1.7 bushels for seed per acre in Russia, 1.6 bushels in Canada and Australasia, and 1.5 bushels in the remaining countries. The countries included in this statement produce about 50 per cent of the world's crop of wheat, and they consume, for food and seed, almost as large a proportion of it.

France has the largest consumption per unit of population, closely followed by Canada. The use of wheat in the Australasian colonies is naturally large. The seven colonies are grouped together, because it is believed that a fairer presentation can thus be made. The average consumption for food is 6.5 bushels for the colonies, but an examination of the table of supply presented later shows that the data is not locally complete. South Australia is credited with a supply of 23.2 bushels per head, while the adjoining colony of Queensland has but 5 bushels. The balance is restored by the flour trade, South Australia being a

large shipper of that product and Queensland a large importer. The United States, with a larger wheat production and trade than is enjoyed by any other country, has a consumption per head of only 4.6 bushels. This does not mean a more limited dietary for this country, but is rather an evidence of its wide range, the consumption of other cereals being large. Russia is not a wheat-eating country, as her consumption of 1.1 bushels per head will testify.

Corn.—In the case of this cereal the international exchange of meal or flour is generally too small to change materially the supply available for consumption in each country from the figures presented below. The United States produces the bulk of this crop, and but a very small proportion of it, less than 4 per cent, is shipped out of the country. The supply per head available for use as food, feeding material, and seed, with the other uses to which small quantities are assigned, is 28.8 bushels per head, with the single exception of Denmark where the supply of oats is large, no country of the world has so large a supply of all cereals together as the United States has of corn alone. After the United States the largest domestic consumption of corn is in the Danubian countries, Roumania leading with a supply of probably nearly 8 bushels per head. In other European countries it is of little importance in the cereal supply, and it is not a factor in the food supply, being used almost entirely for feeding animals. Its value as a human food is only appreciated on the American continent.

Oats.—The trade in oatmeal is not large enough to seriously affect the table of net supply presented below. While a somewhat important food resource in some countries, the international trade in the grain, in the form of this product, is not important. The importance of this cereal in the agriculture of Denmark is attested by the average annual supply per head, 16 bushels. No other country, with the exception of the colony of New Zealand, approaches the average. The United States is third, with 10.5 bushels per head.

Rye.—This is the bread grain of many sections of eastern Europe. The difficulties in the way of a proper presentation of the wheat supply apply to this cereal as well. A considerable trade in rye flour exists between some of the countries in which its use is prominent. This applies especially to Austria and Germany, where wheat, rye, and all other flour is recorded together. It forms the principal bread grain used in Denmark, Germany, Sweden, and Russia. In Denmark, Austria, Germany, and Russia there is a net export of rye flour, reducing the supply for consumption per head below the average given in the table presented, while in Sweden and other countries it is larger by the importation of flour. France does not demand rye, the consumption being even less than indicated by the supply per head presented. In the United States it is not important as a food stuff, the annual consumption being considerably less than one-half bushel per unit of population. This may seem strange in view of the presence of millions

of people from countries in which rye is the principal bread grain, whose preferences have changed from rye to wheat, unless it may be another evidence of the assimilating power of America.

Barley.—This is the least important of the cereals considered in this report. Denmark alone has a supply large enough to make it important in her dietary, the average being 9.9 bushels per head. This supply is probably reduced by exportation of barley products, as malt. In the form of the grain Germany has a net supply of only 2.5 bushels, and the United Kingdom 3.2. It is the only cereal not grown in sufficient quantity for home requirement in the United States, and the net supply, domestic and foreign, is only 1.1 bushels per head.

Potatoes.—Germany produces more potatoes than are grown in any other country, and naturally the supply per head is large. International trade in this product is generally small. It forms a prominent item in the dietary of most European countries, but it must not be assumed that the supply per head shown represents a consumption for food alone. In the United States potatoes are used mainly for food, but in some of the European countries there is a large consumption in the manufacture of alcohol and starch. Germany stands first in supply per head, with 18.7 bushels, or a greater supply than it has of all cereals together. Belgium is second, with 17.8 bushels, more than all her cereals, and Netherlands third, with 14.9 bushels, against less than 13 bushels, as the sum of all the cereals. In the United States the supply is only 3.1 bushels, a smaller quantity than is apparent for any European country of prominence, except Italy, where the official figures presented indicate only 0.9 bushels per head.

Tobacco.—The data of tobacco supply presented are liable to be misleading. As already explained, the figures purport to give only the supply of raw or leaf tobacco, manufactured product not being included. This being borne in mind, it will be seen that a large supply does not necessarily indicate a large actual consumption. The trade in manufactured tobacco is large, and, if included, would materially change some of the averages presented. Practically, the table may be said to present the amount of tobacco which is available in each country for the purpose of manufacture, as the amount of the raw product used is insignificant. With this understanding it might be pointed out that, with the exception of Netherlands, the amount per head so available is rather uniform in the principal countries. The exception in the case of Netherlands, where the supply is 8.3 pounds, is the result of the heavy imports of tobacco from the Dutch colonies in the East Indies to be manufactured by the mother country and re-exported. The United States produces a larger crop than any other country, the aggregate supply is the largest, and the amount per unit of population is exceeded only by Netherlands and equaled by Belgium.

Cotton.—The figures of cotton supply of course represent only the amount available in each country for use in its cotton manufacturing

industry. The question of the actual consumption or use of cotton per head is not considered. Were this done, the United States would stand far ahead of other countries. The United Kingdom stands first, both in aggregate amount manufactured and amount per head, but the United States is gaining in aggregate volume, though she can hardly hope soon to stand first in supply manufactured. The difference in population is too heavy a handicap. Of the continental countries Switzerland stands first, with 18.7 pounds per head, no other country having over half that amount. Belgium and Germany have each more than 8 pounds, while Portugal is the smallest of any country which is fully presented. If complete data for Russia were available it would show a supply of less than 2 pounds per head.

Table showing net supply.

Countries.	Average population.	Average supply.			
		Wheat.	Per head.	Corn.	Per head.
Europe:		<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>
Austria-Hungary	39,614,310	154,682,678	3.9	114,205,857	2.9
Belgium	5,702,753	37,100,558	6.5	.....	.....
Denmark	2,070,622	6,183,284	3.0	.....	.....
France	38,007,620	346,859,145	9.1	40,475,677	1.1
Germany	47,327,562	111,629,153	2.4	.....	.....
Italy	29,703,467	142,214,355	4.8	82,716,277	2.8
Sweden	4,675,171	5,326,230	1.1	.....	.....
Netherlands	4,262,054	14,339,581	3.4	.....	.....
Russia and Poland	*90,000,000	159,096,146	1.8	9,532,569	1.1
United Kingdom	36,457,130	183,204,199	5.0	60,828,575	1.7
Asia:					
Japan	38,000,540	13,517,983	.4	.....	.....
America:					
United States	56,389,016	356,422,708	6.3	1,623,466,476	28.8
Canada	4,577,110	37,481,859	8.2	.....	.....
Australasia:					
New South Wales	936,834	4,879,614	5.2	4,424,255	4.7
New Zealand	555,106	5,517,273	9.9	279,655	.5
Queensland	310,092	170,259	.5	1,893,835	6.1
South Australia	302,172	7,000,290	23.2	.....	.....
Tasmania	133,592	886,759	6.6	.....	.....
Victoria	990,188	9,307,742	9.4	381,430	.4
Western Australia	36,704	354,080	9.6	.....	.....

Countries.	Average population.	Average supply.			
		Oats.	Per head.	Rye.	Per head.
Europe:		<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>
Austria-Hungary	39,614,310	152,167,773	3.8	123,453,130	3.1
Belgium	5,702,753	.....	.....	18,025,533	3.2
Denmark	2,070,622	33,030,371	16.0	18,832,863	9.1
France	38,007,620	262,464,543	6.9	71,067,825	1.9
Germany	47,327,562	314,021,826	6.6	257,512,460	5.4
Italy	29,703,467	18,656,002	.6	.....	.....
Sweden	4,675,171	40,078,396	8.6	25,362,178	5.4
Netherlands	4,262,054	11,102,306	2.6	18,436,985	4.3
Russia and Poland	*90,000,000	507,810,416	5.6	665,971,785	7.4
United Kingdom	36,457,130	215,657,540	5.9	.....	.....
America:					
United States	56,389,016	592,443,899	10.5	23,593,866	.4
Australasia:					
New South Wales	936,834	1,503,759	1.6	.....	.....
New Zealand	555,106	8,408,882	15.1	.....	.....
Queensland	310,092	205,143	.7	.....	.....
South Australia	302,172	295,136	1.0	.....	.....
Tasmania	133,592	645,472	4.8	.....	.....
Victoria	990,188	5,379,776	5.4	.....	.....

* Estimated on basis of increase shown between 1885 and 1887.

Table showing net supply—Continued.

Countries.	Average population.	Average supply.			
		Barley.	Per head.	Potatoes.	Per head.
Europe:		<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>
Austria-Hungary	39,614,310	84,676,328	2.1	409,609,818	10.3
Belgium	5,702,753	10,862,890	1.9	101,590,462	17.8
Denmark	2,070,622	20,537,425	9.9	13,549,942	6.5
France	38,007,620	52,240,391	1.4	392,890,906	10.3
Germany	47,327,562	119,515,316	2.5	886,903,327	18.7
Italy	29,703,467	9,131,666	.3	26,602,591	.9
Sweden	4,675,171	13,428,236	2.9	48,841,839	10.4
Netherlands	4,262,054	8,488,433	2.0	63,423,835	14.9
Russia and Poland	*90,000,000	121,897,834	1.4	463,197,468	5.1
United Kingdom	36,457,130	115,780,494	3.2	.....	.....
Asia:					
Japan	38,000,540	32,033,873	.8	.....	.....
America:					
United States	56,389,016	64,642,898	1.1	172,377,498	3.1
Australasia:					
New South Wales	936,834	176,348	.2	3,347,443	3.6
New Zealand	555,106	1,176,312	2.1	4,280,775	7.7
Queensland	310,092	20,679	.1	921,535	3.0
South Anstralia	302,172	229,646	.8	907,329	3.0
Tasmania	133,592	109,051	.8	1,103,352	8.3
Victoria	990,188	1,280,135	1.3	5,191,630	5.2

Countries.	Average population.	Average supply.			
		Tobacco.	Per head.	Cotton.	Per head.
Europe:		<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>
Austria-Hungary	39,614,310	151,096,053	3.8	186,365,486	4.7
Belgium	5,702,753	26,622,265	4.7	49,291,597	8.6
France	38,007,620	92,575,318	2.4	246,325,596	6.5
Germany	47,327,562	166,456,560	3.5	382,670,279	8.1
Italy	29,703,467	44,086,687	1.5	124,183,597	4.2
Sweden	4,675,171	8,885,755	1.9	25,036,952	5.4
Netherlands	4,262,054	35,285,122	8.3	25,872,101	6.1
Portugal	4,512,814	.....	.....	10,627,109	2.4
Spain	17,170,761	.....	.....	108,274,509	6.3
Switzerland	2,889,718	.....	.....	53,920,107	18.7
United Kingdom	36,457,130	54,643,786	1.5	1,490,619,883	40.9
Asia:					
Japan	38,000,540	.....	.....	166,780,314	4.4
America:					
United States	56,389,016	267,578,766	4.7	1,133,861,180	20.1
Australasia:					
New South Wales	936,834	3,192,965	3.4	.....	.....
Victoria	990,188	1,475,055	1.5	.....	.....

*Estimated on basis of increase shown between 1885 and 1887.

E U R O P E.

AUSTRIA-HUNGARY.

The estimates of crop production for the Empire of Austria-Hungary are made for each country separately. The official authority from which the figures were taken relative to the production of Austria is the *Statistisches Jahrbuch* of the Ministry of Agriculture. For Hungary, the authority is *Statistisches Jahrbuch für Ungarn*. In the statement for Austria, it will be noticed that the area for 1883 is in each case the same as that given for the previous year. This is explained by the fact that statistics of area for purposes of taxation were not available in time to serve as a basis for the computation of the crops of 1883, and the Ministry of Agriculture therefore assumed that the area was the same as that in the previous year. The trade statements are from the official records of imports and exports and are taken from the *Ausweise über den Auswärtigen Handel der Österreichisch-Ungarischen Monarchie*. Beginning with 1882 this report is issued as a constituent part or volume of the series of publications issued by the Statistical Central Commission under the general title, *Österreichische Statistik*. The tables given show the "special commerce" between the Austro-Hungarian Zollgebiet (territory subject to custom-house jurisdiction) and the rest of the world, including both foreign countries and those minor portions of the Austro-Hungarian dominions not embraced in the Zollgebiet. By "special commerce," a phrase borrowed from the French trade reports, is meant that portion of the import trade in which the articles imported are released from custom-house control and allowed to enter the free trade or commerce of the Zollgebiet, with that portion of export trade which is made up of either articles produced within the limits of the Zollgebiet or produced outside and set free after importation. The imports and exports are exclusive of those embraced in the purely transit trade and those reported under the heading "*Zur appretur*" (practically for preparing, finishing, etc.). The imports under this last head comprise articles destined for reëxportation after undergoing some industrial process, and therefore, not being subjected to the duties imposed upon imports of like articles for consumption, are never in the free trade or commerce of the country outside the jurisdiction of the custom-house.

Practically the imports and exports given in the following tables are the same as those sometimes designated as imports for home consumption, and exports of domestic and foreign produce. That it is not exactly the same, however, may be seen in the case of cotton, where cotton imported apparently for domestic consumption is afterwards reëxported.

In presenting the tables the production for Austria and Hungary is given separately for each year, and the aggregate production is presented with the imports and exports of the same product for the whole Empire.

In the case of wheat there seems to have been little change in the Austrian crop during the period from 1880 to 1890, but in Hungary there is a material increase in both acreage and production. During the first three years of the decade, 1880 to 1882, inclusive, the imports and exports of this grain were closely balanced, while in the six years, 1880 to 1885, inclusive, there was only an excess of 5,000,000 bushels in favor of exportation. Beginning with 1886, however, the Empire becomes quite largely an exporting country, imports rapidly declining to insignificant figures with a considerable advance in exportation.

In the production of corn the Empire takes second rank in production among the countries of the world, with an annual average for the past ten years of not quite 110,000,000 bushels. The acreage and production seem to be practically stationary, although the domestic production is not sufficient for the demands for home consumption. In the earlier years of the decade the net importation ranged from 4,000,000 to 10,000,000 bushels, but in later years the net supply from outside sources has been smaller. The area of barley varies but little from year to year, production fluctuating according to the season. The foreign shipments of barley in the grain are larger in proportion to production than in the case of any other cereal, the average net exportation for ten years being more than 13,000,000 bushels. The large production of potatoes averaging more than 400,000,000 bushels per annum does not suffice entirely for home consumption, there being a slight balance in favor of importation in the trade of this product.

The production of tobacco in Austria fluctuates from year to year, but in Hungary a practically continual decrease in area appears from year to year, indicating a steady decline in the industry. In the trade figures there appears an annual balance in favor of imports, amounting to about 17,000,000 pounds. The official reports state clearly that the figures here presented relate to raw tobacco only, it being specifically given as unworked leaves, ribs, stems, and blossoms. Tobacco extract appears to be included whenever imported. The weights given are gross weights.

In the matter of dairy products no estimates of production for butter or cheese are available for Hungary. The figures presented for Austria come from the statistical year book of the Ministry of Agri-

culture and cover only four years. The identity of the figures for 1883 with those for 1882 indicate that the estimates are arbitrarily made and not the result of any special computation.

In 1880 and 1881 the figures on butter are stated to include suet, and for the years 1882 and 1887, inclusive, both suet and artificial butter are included. As artificial butter is not mentioned elsewhere in the earlier reports, it is more than probable that during the whole period it has been included in the imports of butter.

The statement of wool production in Austria is from the source above mentioned in connection with dairy products. No figures for Hungary are attainable. In the trade in wool the Empire appears as an importing country, the average balance in favor of imports for ten years amounting to more than 22,000,000 pounds. These statements include not only raw wool, but washed, combed, bleached, milled, dyed, and waste wool and shoddy. In the statement for the last three years the list of items mentioned as included in wool is longer than those for earlier years, and includes, in addition to those mentioned, hair or fur of several animals besides sheep; but these, though not expressly mentioned, are probably included in the figures presented earlier, as they are not found under any other headings for those years. The figures for cotton include not only raw cotton, but carded, milled, bleached, waste, and cotton batting, with silk and wool batting also for the year 1881. If the two latter items are included for later years it is without being specifically mentioned. In 1888 and 1890 dyed cotton is also included.

The statement for flour includes flour of all grains, and a small quantity made from rice and leguminous seeds. The prominence of the Empire as a milling center is reflected in the export trade in flour, the average shipments amounting to 350,000,000 pounds. This represents a shipment of grain in the form of flour very much larger than the aggregate shipment of grain itself.

Production, imports and exports.

WHEAT.

Years.	Production.						Imports.		Exports.	
	Austria.		Hungary.		Total.		Bushels.	Value.	Bushels.	Value.
	Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.				
1880.....	2,456,349	40,582,578	5,958,142	79,320,655	8,414,491	119,903,233	11,927,305	\$13,947,253	7,405,942	\$10,722,122
1881.....	2,456,270	41,163,073	6,290,558	88,889,962	8,716,828	130,052,935	9,160,683	11,153,628	7,644,010	11,422,222
1882.....	2,512,483	44,543,126	6,163,766	131,746,879	8,676,249	176,290,005	8,436,538	9,404,826	15,927,386	20,712,758
1883.....	2,512,483	37,871,291	6,438,134	90,541,782	8,950,517	128,413,043	6,106,889	5,704,786	10,318,583	12,245,220
1884.....	2,735,597	43,814,746	6,772,247	107,298,489	9,533,367	151,023,265	4,723,790	3,831,736	4,073,278	4,273,317
1885.....	2,950,520	48,281,992	6,829,919	113,805,460	9,722,767	162,087,452	5,075,294	3,808,439	5,331,712	5,331,712
1886.....	2,900,729	44,644,090	6,829,919	102,846,419	9,730,048	147,490,509	831,678	6,063,100	7,689,672	6,887,008
1887.....	2,876,410	52,351,793	6,860,932	145,906,514	9,737,342	198,258,247	288,869	215,750	8,579,660	7,103,447
1888.....	2,929,973	51,843,472	6,844,769	135,859,786	9,774,742	187,703,258	41,072	43,609	15,216,291	11,816,747
1889.....	2,704,401	38,376,705	7,192,666	93,530,530	9,807,067	131,897,235	66,112	43,609	9,403,787	7,790,220
1890.....	2,834,014	44,659,992	7,360,365	148,017,904	10,135,279	192,077,866	153,832	114,966	8,704,114	8,193,004

MAIZE.

1880.....	846,387	17,187,873	4,610,535	98,763,140	5,450,922	115,951,013	11,247,019	\$7,014,271	2,048,585	\$1,756,717
1881.....	892,147	12,933,225	4,439,117	81,907,959	5,271,634	94,841,284	10,463,347	6,674,954	2,957,707	2,364,056
1882.....	867,143	15,716,947	4,679,511	107,516,743	5,546,654	123,233,690	9,715,739	6,413,105	2,617,896	2,452,196
1883.....	867,143	20,187,990	4,597,410	87,223,743	5,374,552	107,411,733	6,798,687	3,765,127	2,985,339	2,329,632
1884.....	805,266	17,002,470	4,535,269	96,334,280	5,280,535	107,336,769	8,204,970	4,555,392	1,331,484	1,008,638
1885.....	905,480	19,835,370	4,633,669	109,093,033	5,512,349	128,378,463	11,944,226	6,133,552	766,678	595,980
1886.....	895,888	19,199,887	4,729,887	84,405,358	5,629,775	103,065,243	4,145,257	1,945,383	691,638	604,120
1887.....	891,962	15,951,829	4,517,275	73,714,397	5,469,237	89,606,226	3,300,802	1,586,345	287,365	173,016
1888.....	897,235	16,585,613	4,608,363	95,376,751	5,563,398	111,962,364	2,207,352	1,072,882	690,532	400,408
1889.....	943,663	16,474,667	4,787,815	102,385,461	5,731,478	118,860,128	1,855,596	1,072,882	1,917,390	936,502
1890.....	919,019	19,221,679	4,772,867	89,904,953	5,691,896	109,136,652	3,809,478	1,979,192	527,415	313,074

RYE.

1880.....	4,553,045	64,328,196	2,682,216	34,441,555	7,235,261	98,769,751	4,119,165	\$3,853,413	2,528,129	\$2,824,800
1881.....	4,629,942	80,005,611	2,688,576	40,187,708	7,318,518	120,163,319	1,941,635	1,805,271	2,411,360	2,677,953
1882.....	4,757,080	82,222,008	2,680,162	50,467,511	7,426,242	132,680,519	2,542,616	1,961,444	2,697,850	2,684,550
1883.....	4,757,080	67,895,757	2,714,853	40,111,377	7,451,633	108,007,134	3,068,479	2,176,176	1,048,472	870,969
1884.....	4,806,857	76,551,267	2,720,430	42,951,706	7,628,287	119,502,973	4,868,868	3,680,193	3,003,711	268,269
1885.....	4,932,445	70,119,970	2,704,825	41,709,675	7,727,270	120,829,645	3,474,172	2,198,630	2,855,252	224,580
1886.....	4,970,043	76,436,518	2,778,600	37,425,652	7,748,643	113,862,170	2,983,135	1,615,391	55,343	38,710
1887.....	4,909,584	81,691,114	2,773,722	51,295,798	7,743,306	142,326,172	2,930,988	1,567,734	27,056	2,026
1888.....	4,970,144	81,691,114	2,773,722	42,105,395	7,711,452	123,766,171	7,030,608	1,567,734	233,877	124,089
1889.....	4,875,896	70,780,870	2,673,852	36,789,694	7,549,748	107,570,564	143,933	79,445	133,579	87,909
1890.....	4,941,511	80,653,193	2,682,426	50,173,800	7,623,337	130,815,055	663,270	425,214	129,868	98,698

SPELT.

[Imports and exports in bushels of 36 pounds.]

1880.....	21,903	280,989	10,979	147,002	32,882	427,991	38,654	\$23,246	11,550	\$7,718
1881.....	21,036	228,958	8,772	132,594	29,808	361,552	32,426	21,535	15,818	11,556
1882.....	21,120	288,971	8,577	182,831	29,697	471,802	11,072	7,335	6,632	4,833
1883.....	21,120	283,807	7,285	105,737	28,405	389,544	9,149	5,230	3,625	2,581
1884.....	15,896	315,190	9,511	148,038	25,407	463,228	1,917	933	5,701	3,589
1885.....	16,086	285,992	9,343	163,905	25,429	449,897	2,639	2,069	3,203	1,770
1886.....	17,257	299,169	11,557	212,120	25,429	511,289	2,394	290	3,123	1,676
1887.....	17,181	245,302	8,285	156,429	25,406	401,731	2,394	930	1,696	804
1888.....	17,045	226,047	6,852	127,503	23,897	353,550	2,933	965	5,500	2,439
1889.....	16,961	275,606	12,056	185,187	25,917	400,793	1,206	448	4,415	2,049
1890.....	17,178	341,465	8,199	150,405	25,977	491,873	1,325	135	2,621	1,400

BARLEY.

1880.....	2,606,108	50,533,690	2,417,646	50,914,474	5,083,754	101,448,164	1,600,990	\$891,488	10,250,223	\$9,300,612
1881.....	2,582,521	46,775,989	2,250,452	39,908,226	4,823,004	86,684,215	1,696,137	1,088,891	8,152,997	8,121,858
1882.....	2,517,863	48,894,197	2,398,859	57,560,975	4,916,722	106,455,172	2,229,769	1,353,376	18,014,975	15,988,042
1883.....	2,517,863	46,403,737	2,402,563	39,295,527	4,920,426	85,689,264	2,376,100	1,538,551	10,293,920	9,328,572
1884.....	2,655,554	51,727,994	2,459,520	46,813,098	5,115,074	98,541,092	2,148,473	1,145,643	12,515,477	11,641,131
1885.....	2,882,214	52,053,589	2,584,342	54,313,183	5,496,556	106,366,752	2,143,951	1,109,513	15,198,819	11,148,920
1886.....	2,702,578	53,253,519	2,580,265	37,863,265	5,116,784	91,116,784	802,162	403,350	10,964,532	8,037,872
1887.....	2,798,847	58,362,807	2,481,298	55,716,347	5,279,976	114,079,154	444,585	207,182	17,694,844	11,988,632
1888.....	2,798,847	57,346,301	2,481,978	43,112,573	5,226,763	102,438,874	176,089	70,782	19,702,285	13,680,582
1889.....	2,812,799	46,787,401	2,487,064	34,513,357	5,239,823	80,391,368	264,851	125,393	14,785,572	11,568,963
1890.....	2,757,512	54,445,326	2,488,713	52,910,139	5,246,727	107,355,465	597,961	310,412	17,511,625	14,256,857

Production, imports, and exports—Continued.

OATS.

Years.	Production.						Imports.		Exports.	
	Austria.		Hungary.		Total.		Imports.		Exports.	
	Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	4,436,789	92,730,578	2,514,645	61,655,093	6,951,434	154,385,671	1,233,729	\$457,989	4,898,633	\$2,109,406
1881.....	4,400,280	95,364,204	2,361,517	67,805,454	6,701,797	143,109,658	1,663,183	568,552	8,521,851	3,617,250
1882.....	4,347,534	91,575,003	2,497,733	67,494,458	6,815,267	159,067,461	2,989,169	1,118,665	4,537,790	2,042,558
1883.....	4,317,534	95,547,847	2,452,937	51,157,310	6,800,471	146,705,157	2,427,010	802,959	4,231,502	1,765,170
1884.....	4,592,797	107,851,020	2,457,785	57,084,456	6,990,582	164,435,476	2,656,075	957,565	4,870,767	2,163,397
1885.....	4,510,575	94,743,132	2,505,414	54,432,627	6,984,980	149,185,759	3,424,097	1,190,982	5,817,202	2,536,809
1886.....	4,616,184	112,734,318	2,603,028	54,989,181	7,219,219	167,723,499	1,177,091	339,949	4,286,211	1,591,554
1887.....	4,632,559	105,084,060	2,582,496	61,495,512	7,216,219	166,579,572	1,344,854	375,458	2,720,325	922,677
1888.....	4,630,829	105,216,231	2,582,496	61,495,512	7,216,219	166,579,572	1,344,854	375,458	2,720,325	922,677
1889.....	4,639,265	80,936,510	2,515,041	43,636,559	7,154,306	124,573,069	1,727,897	503,041	2,082,203	783,635
1890.....	4,630,626	104,223,106	2,453,836	53,278,540	7,083,862	157,501,646	2,518,859	1,009,940	668,373	229,230

MIXED GRAIN AND MASLIN.

[Imports and exports of maslin in bushels of 56 pounds.]

Years.	Mixed grain—production.						Imports.		Exports.	
	Austria.		Hungary.		Total.		Imports.		Exports.	
	Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	54,226	1,135,851	531,665	6,803,666	585,891	7,739,517	71,072	\$98,861	144	\$107
1881.....	52,823	1,065,048	505,475	7,306,882	528,298	8,461,350	73,185	70,475	3,259	3,795
1882.....	48,708	980,876	504,322	10,475,763	553,640	11,456,659	12,771	10,668	2,060	1,759
1883.....	48,708	982,515	477,968	7,210,769	526,676	8,203,284	3,014	2,200	103	88
1884.....	51,859	1,117,776	491,352	8,424,946	543,771	9,512,722	9,658	7,669	1,083	963
1885.....	51,567	1,053,359	458,059	7,215,059	509,626	8,273,418	27,124	17,629	5,014	3,963
1886.....	51,288	898,211	437,785	6,641,773	488,073	7,539,984	220	124	2,980	2,089
1887.....	50,211	1,101,631	456,564	9,038,414	506,775	10,140,045	813	159	517	320
1888.....	51,980	1,180,741	436,272	7,828,833	488,252	9,009,574	361	159	779	447
1889.....	52,398	1,218,479	421,367	5,717,920	473,765	6,436,399	106	42	42	24
1890.....	52,924	1,693,544	380,074	7,237,183	432,908	8,846,727	186	123	4	3

POTATOES.

Years.	Production.						Total.		Imports.		Exports.	
	Austria.			Hungary.			Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
	Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.						
							Austria.		Hungary.			
1880.....	2,457,965	243,371,779	891,826	88,090,594	3,340,821	331,402,373	474,485	\$264,210	490,152	\$272,984		
1881.....	2,450,397	282,486,802	917,962	86,245,588	3,368,359	308,732,390	652,536	361,135	335,375	185,608		
1882.....	2,434,115	243,694,006	958,245	121,199,443	3,387,360	364,893,449	862,880	476,373	408,277	225,399		
1883.....	2,434,115	289,477,258	973,352	122,821,148	3,407,467	312,298,386	769,795	415,241	519,786	280,382		
1884.....	2,678,959	281,739,915	1,017,699	93,575,679	3,696,658	375,315,594	763,688	330,389	424,455	160,675		
1885.....	2,712,842	368,128,922	1,036,881	109,548,489	3,749,723	477,677,411	890,262	460,718	399,507	144,724		
1886.....	2,694,522	333,662,164	1,051,593	93,181,409	3,746,115	426,843,573	844,373	408,245	456,595	154,531		
1887.....	2,758,765	337,902,407	1,019,984	92,509,509	3,778,749	430,411,976	826,321	241,971	578,917	142,563		
1888.....	2,735,207	298,307,365	1,085,866	106,543,474	3,821,073	404,850,839	849,601	222,868	702,055	128,284		
1889.....	2,716,958	331,886,767	1,085,614	113,786,403	3,802,572	445,673,170	875,449	153,635	805,359	131,892		
1890.....	2,665,643	302,561,325	1,071,154	84,429,815	3,736,797	386,991,140	640,987	163,067	735,315	134,686		

TOBACCO.

Years.	Production.						Total.		Imports.		Exports.	
	Austria.			Hungary.			Acres.	Pounds.	Pounds.	Value.	Pounds.	Value.
	Acres.	Pounds.	Acres.	Pounds.	Acres.	Pounds.						
							Austria.		Hungary.			
1880.....	7,275	7,206,837	148,626	108,468,257	155,901	175,675,094	27,233,203	\$4,296,586	12,626,406	\$609,339		
1881.....	6,385	6,767,681	150,165	134,794,976	156,550	141,562,637	22,865,721	3,912,310	13,683,873	884,176		
1882.....	4,418	5,503,784	153,007	154,706,447	157,425	160,270,251	24,615,962	4,244,203	11,900,872	706,517		
1883.....	4,418	5,855,418	147,664	122,206,950	152,082	128,062,348	26,252,377	4,484,315	12,310,927	604,073		
1884.....	10,739	12,786,289	144,245	135,392,863	154,984	148,179,102	25,683,149	4,963,705	16,231,808	936,300		
1885.....	4,608	5,590,742	140,573	137,591,766	145,181	143,082,908	27,476,371	5,972,091	16,080,573	970,881		
1886.....	5,458	6,927,074	144,919	102,847,897	150,377	109,774,971	32,219,568	5,711,863	10,089,131	487,788		
1887.....	6,528	6,580,466	138,005	124,940,634	142,643	133,471,000	35,486,344	6,465,577	8,749,616	705,000		
1888.....	5,219	6,736,596	125,355	126,458,281	128,574	133,194,877	28,895,692	5,060,005	7,948,244	682,719		
1889.....	6,565	9,110,069	112,675	125,053,720	119,240	134,163,799	28,293,836	4,933,967	6,675,970	559,470		
1890.....	6,652	9,306,719	109,655	100,299,159	115,707	109,605,878	27,726,152	5,830,918	4,179,040	233,886		

Production, imports, and exports—Continued.

BUTTER AND CHEESE.

Years.	Butter.				Cheese.							
	Production.		Imports.		Exports.		Production.		Imports.		Exports.	
	Austria.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Austria.	Pounds.	Value.	Pounds.	Value.
1880.												
	<i>Pounds.</i>							<i>Pounds.</i>				
1881.	136,948,253	333,997	\$55,794	16,551,475	\$2,304,113	3,625,685	\$491,433		3,416,248	470,552	2,145,076	\$238,891
1882.	138,459,462	332,233	55,161	14,252,756	1,967,838	3,416,248	470,552		3,647,511	528,903	1,844,809	204,196
1883.	138,459,462	299,490	44,473	12,952,245	1,787,646	3,647,511	528,903		4,363,124	627,612	1,373,245	151,626
1884.	138,310,431	229,490	28,886	11,036,968	1,229,282	4,363,124	627,612		4,573,663	659,557	1,882,241	170,698
1885.		185,407	27,180	9,675,168	1,013,074	4,573,663	659,557		4,421,105	610,123	2,100,102	227,138
1886.		208,555	28,570	10,178,638	1,312,936	4,421,105	610,123		4,160,521	469,368	1,896,838	240,034
1887.		202,162	28,187	10,218,762	1,346,029	4,160,521	469,368		4,108,493	455,936	2,060,199	163,304
1888.		193,220	26,565	10,783,580	1,394,456	2,389,566	369,126		2,389,566	369,126	1,536,686	116,236
1889.		149,472	19,717	12,406,827	1,674,143	3,651,479	589,773		3,651,479	589,773	1,343,172	146,948
1890.		134,200	18,474	9,695,077	1,288,506	3,719,160	664,876		3,719,160	664,876	1,316,357	133,953

WOOL, COTTON, AND FLOUR.

Years.	Wool.				Cotton.				Flour.					
	Production.		Imports.		Exports.		Imports.		Exports.		Imports.		Exports.	
	Austria.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	
1880.														
	<i>Pounds.</i>													
1881.	10,902,188	43,427,754	\$14,965,471	\$10,836,942	153,538,265	\$17,487,674	13,174,469	\$1,256,819	142,287,580	\$3,565,355	286,870,709	\$9,850,624		
1882.	11,158,362	56,168,137	8,325,187	8,130,965	176,783,120	18,003,934	17,518,413	1,498,962	118,626,130	2,951,836	269,362,658	9,441,377		
1883.	11,157,922	57,585,695	15,247,275	8,359,868	171,233,487	17,863,868	1,987,174	1,987,255	75,955,525	1,395,296	400,279,963	12,775,491		
1884.	11,329,439	60,790,575	15,810,080	9,829,724	229,092,332	21,097,887	18,844,039	1,373,568	4,764,802	1,044,950	412,616,463	12,241,492		
1885.		51,331,025	10,448,889	25,963,153	209,134,749	19,987,153	18,012,270	1,720,284	3,029,561	68,263	337,214,734	8,510,060		
1886.		49,923,387	11,615,376	21,304,593	192,534,552	17,932,763	34,183,866	2,797,463	3,368,849	69,796	330,623,642	9,125,368		
1887.		50,085,264	14,956,278	19,055,526	215,094,004	16,284,845	32,427,020	2,154,650	4,631,269	89,405	320,563,390	8,653,546		
1888.		54,205,603	12,733,952	5,297,288	253,904,664	19,734,169	45,743,066	3,247,047	1,062,749	30,755	282,924,255	7,287,946		
1889.		63,611,703	16,686,645	29,218,005	229,193,082	17,564,419	42,140,488	2,919,864	1,000,936	2,375	254,361,446	9,859,112		
1890.		57,136,398	14,833,139	21,557,992	270,823,820	23,760,049	38,610,262	2,999,007	128,969	1,781	388,512,469	9,278,436		

BELGIUM.

The estimates of acreage and yield for Belgium are taken from the official annual publication *Annuaire Statistique de la Belgique*. The trade figures are tabulated from the official report, issued by the ministry of finance, *Tableau Général du Commerce avec les Pays Étrangers*.

The annual estimates of crop production are prepared in a somewhat peculiar manner. The acreage is returned but once in ten years, but each year an estimate of the yield per acre of the various crops is made, it being assumed that the acreage does not materially change from year to year. In a country where agriculture is conducted upon such a settled and conservative basis as in Belgium, this method of estimating the production each year may be fairly satisfactory, but in a country like our own it would be of no value whatever. In the statements of production each year, which are presented in the tables that follow, the aggregate production has been obtained upon this basis by applying the estimated yield per acre each year to the acreage as ascertained in 1880. In the case of wheat the acreage returned is for winter, while the return of yield per acre each year is divided into spring wheat and winter wheat. It appears, however, from the official reports that the proportion of the spring wheat is very small, and in preparing the estimate of total product the yield of spring wheat has been disregarded entirely and the yield of winter wheat applied to the total wheat acreage. The average annual production of wheat for the ten years, 1881 to 1890, inclusive, is but little more than 18,000,000 bushels, while the production of spelt during the same period is a little more than 5,000,000 bushels, making a total production for the two grains of 23,000,000 bushels. In the trade statements the three grains, wheat, spelt, and maslin, are classed together, and there is a net importation of the three of about 19,000,000 bushels. The demand for consumption, which increases with the increasing population, appears to be met mainly by an increase in importation, the advance being 10,000,000 bushels between 1881 and 1890. The production and trade in rye are quite uniform from year to year, the crop averaging about 17,000,000 bushels, with a net importation of about 1,000,000 bushels. The record of commerce in barley includes malt as well. There is a slight tendency toward an increase in the production of oats, and a marked increase in the importation of oats, maize, buckwheat, which in the official volume are classed together. The potato crop averages nearly 100,000,000 bushels per annum, but even this product is not sufficient, and there is a net importation of 2,000,000 bushels each year. The production of tobacco appears to be declining, and as the product is ascertained upon the basis already explained, it might perhaps be assumed that allowance is made for some fluctuation in acreage in the estimates of yield per acre which are presented in the official statement. Unless this be true, then it would appear that with two exceptions the season each year from 1880 to 1888 inclusive has

been less favorable to the crop year by year. In the imports of this product, in addition to leaf tobacco, tobacco ribs are included, and the same remarks apply to the export trade. With an annual production of 6,000,000 pounds, there is an annual net importation of more than 20,000,000 pounds of raw tobacco, but a considerable portion of this is reexported in the shape of manufactured product.

In the trade in dairy products, Belgium is an importing country in butter, and the tendency is toward an increase of the balance that way. In 1881, the net importation amounted to 8,000,000 pounds, while in 1890 it was 23,000,000 pounds. The average for the period is nearly 21,000,000 pounds. In the cheese trade the balance is the same way, there being an average net importation of more than 4,000,000 pounds each year. Included in the statement of imports and exports of cheese, there appears in addition to cheese a statement that the figures cover also milk and common and white cheese. It is not possible to definitely separate the milk from the cheese, but it would appear that in the imports in 1881 about 8,700,000 pounds were cheese of the two descriptions given, the remainder being milk, while for the same year in the export statement only about 335,000 pounds out of the total given were cheese. If these proportions hold good throughout the period, then it appears that the importation of milk is small, but that in the export statement by far the larger portion of the amount stated is made up of milk. On this basis there is a very large net importation of cheese as well as of butter. In the wool trade there is but little fluctuation in the annual exports, but a tendency towards a decrease in the importation is apparent. Taking the first five years of the decade, the imports averaged more than 100,000,000 pounds, while in the last five they averaged less than 90,000,000 pounds. In the statement of flour there is included not only flour of all kinds, but bran and other meal products. The trade is very nearly balanced, but the figures presented show a marked and very rapid advance in exports, with comparatively little change in imports throughout the period until 1890.

Production, imports, and exports.

WHEAT AND SPELT.

	Wheat-production.		Spelt—production.		Wheat and spelt.			
	Acres.	Bushels.	Acres.	Bushels.	Imports.		Exports.	
					Bushels.	Value.	Bushels.	Value.
1880.....	681, 828	18, 211, 580	129, 762	5, 440, 299				
1881.....		15, 510, 379		4, 620, 752	22, 372, 118	\$34, 078, 765	7, 899, 181	\$12, 032, 582
1882.....		17, 835, 762		5, 110, 990	26, 126, 132	38, 424, 825	11, 005, 586	16, 186, 388
1883.....		17, 757, 467		5, 161, 654	24, 942, 228	31, 443, 092	8, 256, 605	10, 408, 581
1884.....		17, 530, 407		5, 495, 432	27, 337, 898	30, 155, 266	9, 695, 303	10, 694, 475
1885.....		18, 516, 935		5, 520, 765	24, 710, 682	25, 959, 330	5, 613, 980	5, 897, 658
1886.....		18, 219, 412		5, 712, 986	24, 078, 066	25, 294, 748	5, 657, 391	5, 943, 263
1887.....		19, 887, 110		5, 856, 033	27, 389, 401	27, 334, 736	5, 992, 662	5, 980, 702
1888.....		15, 298, 980		4, 395, 750	30, 124, 785	30, 064, 661	7, 293, 561	7, 279, 004
1889.....		19, 339, 038		5, 513, 314	28, 166, 963	28, 110, 746	6, 878, 303	6, 864, 576
1890.....		19, 409, 504		5, 364, 305	32, 948, 541	34, 613, 454	8, 203, 647	8, 618, 183

Production, imports, and exports—Continued.

RYE.

	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	586,048	17,938,286				
1881.....		14,787,072	2,999,402	\$3,382,035	3,861,498	\$4,354,108
1882.....		17,835,872	3,968,667	3,886,357	2,584,537	2,485,102
1883.....		16,417,826	5,921,099	4,934,768	4,342,642	3,619,249
1884.....		17,906,773	5,059,325	4,216,548	4,520,744	3,767,683
1885.....		17,749,212	3,124,202	2,297,449	3,586,323	2,600,511
1886.....		15,425,192	2,635,443	1,808,828	2,518,118	1,728,302
1887.....		18,182,504	3,973,036	2,532,103	2,604,988	1,660,216
1888.....		15,047,047	5,625,201	3,860,839	2,839,067	1,948,584
1889.....		18,158,871	4,231,596	2,904,342	3,029,737	2,079,450
1890.....		19,695,088	3,587,740	2,638,322	2,283,189	1,678,992

BARLEY.

[Imports and exports include malt.]

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	99,290	3,559,621				
1881.....		3,284,520	7,566,497	\$6,994,977	1,539,712	\$1,423,413
1882.....		3,400,025	10,651,390	9,399,274	2,109,245	1,861,295
1883.....		3,436,808	10,542,646	8,417,284	2,601,843	2,077,321
1884.....		3,806,572	8,776,677	7,376,135	2,035,081	1,710,332
1885.....		3,740,293	7,745,240	5,858,361	2,280,497	1,724,927
1886.....		3,705,857	7,336,258	5,549,014	1,167,088	882,765
1887.....		3,779,927	8,718,940	5,862,089	1,823,806	1,226,217
1888.....		3,386,392	10,915,638	7,797,705	2,134,929	1,525,110
1889.....		3,648,520	9,432,068	6,737,900	1,997,439	1,426,892
1890.....		3,976,348	10,064,275	7,612,438	1,656,345	1,252,830

OATS, MAIZE, AND BUCKWHEAT.

Year.	Oats—production.		Oats, maize, and buckwheat.			
			Imports.		Exports.	
	Acres.	Bushels.	Pounds.	Value.	Pounds.	Value.
1880.....	316,480	27,417,608				
1881.....		23,389,561	539,951,364	\$9,453,925	224,303,669	\$3,927,298
1882.....		26,922,067	391,321,608	6,509,010	147,307,375	2,450,223
1883.....		23,354,166	423,097,052	6,667,147	153,702,307	2,422,035
1884.....		25,746,925	465,563,014	7,336,324	167,194,049	2,634,637
1885.....		25,746,925	493,497,082	7,344,480	170,390,251	2,535,836
1886.....		29,293,587	409,922,325	5,741,813	114,399,287	1,602,399
1887.....		24,355,165	522,163,785	6,399,739	181,246,251	2,221,389
1888.....		28,805,122	615,800,078	7,547,364	170,011,902	2,083,698
1889.....		28,012,257	726,735,638	9,543,226	253,424,165	3,327,873
1890.....		30,440,411	877,781,157	12,295,148	396,559,757	5,554,643

POTATOES.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	492,611	105,429,311				
1881.....		94,192,692	1,898,919	\$698,205	874,792	\$321,649
1882.....		52,879,469	3,936,990	3,936,990	330,457	156,220
1883.....		123,002,083	3,862,042	2,028,597	589,085	309,426
1884.....		131,799,457	1,502,143	473,414	602,654	189,932
1885.....		111,208,768	1,593,450	502,190	635,525	200,292
1886.....		111,853,372	2,080,442	655,671	562,714	177,344
1887.....		108,754,879	1,463,522	538,116	1,078,416	396,518
1888.....		50,132,579	5,506,612	2,603,189	637,385	301,317
1889.....		105,612,437	3,712,281	1,559,946	507,876	213,416
1890.....			2,280,089	760,509	978,016	326,211

Belgium—Continued.

TOBACCO.

Year.	Production.		Imports.		Exports.	
	Acres.	Pounds.	Pounds.	Value.	Pounds.	Value.
1880.....	3, 897	8, 180, 567				
1881.....		7, 676, 452	21, 292, 254	\$3, 167, 609	212, 667	\$20, 852
1882.....		6, 490, 913	32, 389, 315	4, 817, 515	152, 409	16, 879
1883.....		6, 233, 641	28, 364, 348	3, 966, 066	100, 486	14, 075
1884.....		6, 473, 530	7, 254, 437	1, 079, 464	60, 871	9, 047
1885.....		4, 874, 269	15, 473, 093	2, 302, 786	92, 263	13, 731
1886.....		7, 669, 499	19, 063, 767	2, 419, 938	31, 118	3, 950
1887.....			18, 999, 990	2, 494, 851	45, 770	6, 010
1888.....		4, 964, 662	18, 721, 763	2, 573, 150	28, 977	3, 983
1889.....		6, 953, 308	19, 691, 399	2, 241, 029	85, 826	5, 200
1890.....			19, 724, 779	2, 072, 149	71, 918	4, 946

BUTTER, MILK, AND CHEESE.

Year.	Butter.				Milk and cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....	17, 896, 015	\$5, 013, 417	9, 363, 020	\$2, 622, 971	9, 542, 882	\$1, 169, 349	7, 297, 916	\$196, 437
1882.....	17, 350, 974	4, 708, 830	8, 535, 122	2, 316, 322	10, 214, 968	1, 272, 520	7, 699, 823	202, 140
1883.....	18, 018, 046	4, 984, 508	9, 203, 489	2, 546, 051	10, 100, 534	1, 216, 608	8, 468, 695	210, 355
1884.....	17, 004, 364	4, 168, 175	9, 631, 013	2, 360, 791	10, 435, 062	1, 259, 356	8, 442, 211	203, 845
1885.....	17, 557, 154	4, 226, 825	10, 083, 490	2, 427, 566	11, 264, 011	1, 369, 199	6, 888, 577	*17, 256
1886.....	19, 720, 317	4, 747, 600	8, 717, 533	2, 098, 717	10, 993, 718	1, 352, 432	7, 486, 478	173, 909
1887.....	18, 854, 248	4, 291, 509	8, 372, 868	1, 905, 790	10, 524, 340	1, 301, 441	6, 277, 585	154, 065
1888.....	22, 115, 826	5, 033, 894	7, 991, 146	1, 818, 905	11, 090, 773	1, 381, 281	5, 980, 017	148, 580
1889.....	26, 449, 755	6, 020, 361	7, 994, 898	1, 819, 759	12, 189, 831	1, 466, 158	5, 314, 294	123, 413
1890.....	30, 272, 101	6, 492, 862	7, 834, 476	1, 680, 365	12, 799, 767	1, 461, 224	5, 006, 541	123, 490

* Value of export of cheese only.

WOOL AND COTTON.

Year.	Wool.				Cotton—imports.	
	Imports.		Exports.		Pounds.	Value.
	Pounds.	Value.	Pounds.	Value.		
1881.....	100, 328, 903	\$34, 254, 543	5, 539, 640	\$3, 031, 022	45, 459, 438	\$7, 054, 917
1882.....	125, 673, 765	22, 004, 025	6, 789, 050	2, 971, 711	55, 615, 832	7, 536, 713
1883.....	106, 609, 716	18, 666, 130	6, 900, 444	3, 020, 470	52, 551, 674	7, 352, 567
1884.....	80, 285, 820	14, 057, 120	6, 756, 634	2, 809, 645	54, 568, 281	6, 796, 309
1885.....	96, 566, 052	14, 794, 150	6, 864, 461	2, 493, 917	38, 147, 673	4, 179, 765
1886.....	86, 417, 059	13, 239, 301	8, 346, 876	3, 032, 491	46, 233, 077	4, 340, 694
1887.....	97, 833, 501	14, 988, 327	5, 424, 143	1, 970, 637	50, 301, 326	4, 922, 548
1888.....	83, 959, 332	12, 862, 771	6, 188, 261	2, 248, 248	46, 931, 904	4, 754, 328
1889.....	97, 363, 663	17, 047, 253	5, 738, 309	2, 637, 368	31, 898, 591	3, 491, 660
1890.....	77, 212, 114	13, 518, 949	5, 990, 317	3, 015, 402	71, 208, 174	7, 699, 384

FLOUR, BRAN, AND OTHER MILL PRODUCTS.

Year.	Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.
1881.....	129, 636, 439	\$6, 241, 907	71, 253, 666	\$1, 684, 266
1882.....	139, 758, 701	6, 606, 936	68, 835, 884	1, 627, 070
1883.....	135, 810, 243	5, 706, 913	80, 674, 667	1, 765, 650
1884.....	126, 954, 406	4, 890, 215	131, 209, 384	2, 756, 790
1885.....	90, 475, 776	3, 485, 078	144, 551, 693	3, 037, 120
1886.....	105, 557, 026	3, 696, 363	136, 815, 384	2, 755, 187
1887.....	142, 956, 566	5, 006, 009	163, 131, 641	3, 284, 684
1888.....	165, 624, 848	5, 799, 800	211, 913, 302	4, 266, 911
1889.....	178, 311, 525	6, 244, 058	193, 846, 247	3, 903, 128
1890.....	209, 432, 278	5, 500, 376	206, 528, 568	3, 616, 077

BULGARIA.

No official estimates of crop production are available for Bulgaria. The statistics of trade which are compiled and presented below are taken from the official publication relative to the foreign commerce of the principality of Bulgaria, which is published in the Bulgarian language, and is translated into English as follows: *Statistika Turgoiyata na Bulgarskoto Knyazhestvo*. The imports of wheat are inconsiderable, but the export trade is very considerable, taking into account the resources of the country. It is increasing, and averages for the ten years, 1881 to 1890, inclusive, nearly 6,000,000 bushels per annum, having risen from less than 2,000,000 in 1881 to more than 11,000,000 in 1889. Corn is a standard crop in the countries along the lower Danube, and Bulgaria contributes more than 3,000,000 bushels each year to the commerce of the world in that grain. The trade in rye and barley is small, the net exportation averaging less than 1,000,000 bushels of each during the ten years past. The trade in tobacco is not large, but it is noticeable that there is a very marked tendency toward a decrease in the imports and an equally strong trend toward an increase in exports. In 1884 there was a net importation of 200,000 pounds, while in 1890 the balance was in favor of exportation by nearly 850,000 pounds. So far as can be ascertained from the official volume for that year there were no exports of tobacco in 1883.

In dairy products Bulgaria is an exporting country, both in butter and cheese, but the trade in butter is of little consequence. In cheese, however, there is an annual net exportation of more than 3,000,000 pounds, and the shipments are apparently increasing from year to year. The figures on wool include both washed and unwashed wool and show a net exportation for the period 1881 to 1890 of more than 600,000 pounds per annum. This statement, however, does not fairly represent the present state of the wool trade of the country. In the earlier years of the decade the export trade was large and averaged 1,200,000 pounds per annum, while the imports for the same period averaged but little over 140,000 pounds per annum. In the last five years exports have diminished until the average for the period is only about 600,000 pounds each year, against an importation for the same period nearly as great. In 1886 the imports exceeded the exports and the same is true again in 1890. In the statement of the trade in flour the kind of flour is not specified, leaving it to be inferred that it includes the flour of the various cereals. In this trade, as in the case of the grains, the balance is largely in favor of exportation.

Imports and exports.

WHEAT AND CORN.

Year.	Wheat.				Corn.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1880.....	6,275	-----	2,940,120	-----	63,906	-----	298,336	-----
1881.....	12,489	-----	1,979,598	-----	1,115	-----	5,152,531	-----
1882.....	1,325	\$1,043	2,718,437	\$1,935,040	425	\$250	2,739,696	\$868,519
1883.....	407	334	4,085,049	2,918,804	664	258	5,015,008	1,595,173
1884.....	2,814	1,511	2,819,482	2,010,930	1,314	614	2,590,877	818,640
1885.....	18,098	13,293	4,986,939	3,542,880	751	351	4,107,424	1,291,934
1886.....	2,558	1,629	6,706,610	4,745,703	2,774	1,360	1,700,776	521,766
1887.....	2,782	1,040	3,821,344	2,711,968	4,022	1,976	1,918,138	578,197
1888.....	18,627	11,509	8,173,623	5,678,277	378	152	2,839,498	891,934
1889.....	1,759	1,093	11,814,339	8,136,475	280	160	3,062,804	940,122
1890.....	6,921	3,254	9,872,320	7,032,643	4,183	701	5,287,017	1,668,716

RYE AND BARLEY.

Year.	Rye.				Barley.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1880.....	-----	-----	1,349,377	-----	1,191	-----	1,483,980	-----
1881.....	-----	-----	263,415	-----	2,940	-----	1,121,061	-----
1882.....	990	\$428	865,028	\$235,905	283	\$137	1,978,288	\$440,111
1883.....	1,960	894	605,381	166,964	1,254	866	1,073,988	239,736
1884.....	3,012	1,482	817,484	234,617	5,132	3,356	809,476	171,188
1885.....	6,256	3,083	820,970	236,009	7,393	3,333	735,139	154,945
1886.....	1,014	511	730,157	205,752	28,778	6,499	678,057	140,200
1887.....	110	60	729,744	232,405	38,350	8,586	405,400	85,050
1888.....	2,242	1,056	1,472,795	403,227	5,081	1,415	1,113,617	230,357
1889.....	631	269	2,073,801	564,020	3,358	1,612	1,319,819	266,546
1890.....	493	228	1,097,931	300,964	13,795	3,623	1,257,887	253,659

OATS AND POTATOES.

Year.	Oats.				Potatoes.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1880.....	-----	-----	135,287	-----	-----	-----	-----	-----
1881.....	-----	-----	325,982	-----	-----	-----	-----	-----
1882.....	668	\$126	135,565	\$15,808	4,713	\$2,366	790	\$565
1883.....	-----	-----	35,746	3,753	1,951	1,411	432	356
1884.....	205	142	3,223	370	1,260	1,381	1,611	989
1885.....	824	168	106,870	11,457	1,765	2,347	1,529	692
1886.....	388	94	60,402	6,156	3,901	2,381	4,699	4,072
1887.....	3,695	539	4,616	541	6,577	3,888	6,751	4,149
1888.....	1,966	366	32,447	3,596	495	245	5,186	3,158
1889.....	541	88	637,298	65,803	24	21	3,611	1,309
1890.....	5,776	825	758,978	77,484	826	265	1,270	519

Imports and exports—Continued.

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....			497, 837				1, 347, 251	
1881.....			56, 170				541, 585	
1882.....	15, 591	\$1, 251	499, 994	\$43, 890	43, 261	\$5, 815	2, 901, 470	\$158, 516
1883.....	8, 267	730	640, 650	58, 593	56, 890	7, 968	2, 868, 306	177, 108
1884.....	8, 695	1, 410	374, 500	36, 583	52, 417	7, 713	3, 197, 466	191, 791
1885.....	15, 804	1, 607	336, 374	31, 709	119, 699	20, 868	2, 680, 670	157, 825
1886.....	13, 530	2, 276	273, 000	28, 778	80, 955	9, 386	3, 519, 884	242, 932
1887.....	34, 537	5, 488	268, 084	31, 402	62, 996	14, 915	4, 098, 881	299, 763
1888.....	72, 379	11, 178	191, 617	22, 784	77, 225	14, 696	3, 921, 988	305, 725
1889.....	86, 596	11, 215	147, 276	17, 440	89, 574	13, 735	3, 922, 510	277, 862
1890.....	36, 530	5, 514	172, 374	18, 737	74, 130	13, 957	3, 997, 431	294, 114

WOOL AND COTTON.

Year.	Wool.				Cotton.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	242, 831		1, 728, 869		277, 652			
1881.....	174, 343		818, 940		351, 504			
1882.....	105, 263	\$13, 286	1, 815, 843	\$170, 435	320, 194	\$43, 386	739	\$122
1883.....	50, 119	5, 909	1, 552, 541	137, 268	401, 738	52, 173		
1884.....	130, 464	14, 189	1, 343, 164	121, 236	321, 951	42, 387	26	6
1885.....	249, 113	31, 102	1, 399, 848	110, 501	351, 731	47, 819	22	7
1886.....	730, 461	78, 427	281, 223	24, 640	404, 440	57, 542	90	12
1887.....	517, 940	48, 381	904, 448	68, 113	495, 067	67, 622	460	38
1888.....	395, 011	31, 339	739, 325	59, 654	531, 147	64, 764	168	19
1889.....	477, 655	45, 009	680, 691	55, 286	553, 698	69, 113	44	8
1890.....	690, 931	60, 050	427, 123	31, 348	616, 854	66, 780		

TOBACCO AND FLOUR.

Year.	Tobacco.				Flour.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	212, 698						4, 226, 204	
1881.....	465, 841				109, 372		3, 142, 421	
1882.....	733, 649	\$126, 997	11, 861	\$2, 430	942, 339	\$33, 891	1, 817, 413	\$32, 896
1883.....	468, 361	98, 602			535, 636	22, 952	2, 208, 698	32, 893
1884.....	233, 322	84, 813	30, 551	2, 337	649, 422	24, 097	868, 249	14, 372
1885.....	178, 488	102, 610	224, 871	15, 568	740, 836	23, 254	1, 711, 424	30, 934
1886.....	26, 279	9, 366	683, 797	49, 971	1, 101, 304	29, 440	6, 425, 512	107, 090
1887.....	27, 974	15, 048	262, 696	20, 988	390, 287	11, 120	11, 929, 992	168, 225
1888.....	45, 509	26, 165	243, 435	23, 968	303, 825	8, 235	9, 664, 73	142, 253
1889.....	16, 850	8, 818	530, 125	41, 640	301, 283	8, 877	8, 465, 203	126, 327
1890.....	28, 649	14, 886	871, 038	74, 212	372, 831	11, 067	4, 488, 284	71, 449

DENMARK.

For this country the statistics of acreage are from *Statistisk Tabelværk*, fourth series, Letter C, No. 7. It will be noted that the estimates for acreage of but two years are given, 1881 and 1888. The statements of production are taken from *Sammendrag af Statistiske Oplysninger*, Nos. 9 and 10, and from *Statistiske Meddelelser*, third series, volume 10. In the trade statements the figures for 1880 are from volume 9 of the last work named, and those from the period 1881 to 1890, inclusive, are from *Statistisk Tabelværk*, *Fjerde Række*, *Litra D*. In the case of wheat in the years for which acreage are given, 1881 to 1888, the production was smaller than at any other time during the period. This may indicate that there are violent changes in the acreage, but it is more likely that those seasons were unfavorable, resulting in a smaller yield per acre. Between 1881 and 1888, however, there is a decline of 18,000 acres, or between 13 and 14 per cent. Denmark is, of course, a wheat-importing country, but the net importation is less than a million and a half bushels each year, and there is a marked decline between the earlier and later years of the period. The production of rye is very uniform from year to year, the average being nearly 17,000,000 bushels, but between 1881 and 1888 there was an increase of about 5 per cent in acreage. Barley is the only cereal crop of which the domestic production is sufficient for consumption. With a crop of nearly 23,000,000 bushels there is an annual exportation of more than 2,000,000 bushels. The export trade, however, is declining, having fallen away from 4,300,000 bushels in 1881 to 1,600,000 bushels in 1890. In 1881 there was a net exportation of oats, but since that time the exports have declined until that trade is now insignificant in proportions, while there has been considerable increase in imports. The production of potatoes shows a considerable increase during the latter years of the period, with a corresponding decrease in the net imports. The foreign trade in this product, however, is of little importance.

In the trade in dairy products Denmark is a very large exporter of butter, but there is an average balance on the side of imports in cheese, amounting to about 1,000,000 pounds each year. It is not possible to separate the trade in artificial butters from that of butter. The average annual net exportation for the ten years, 1881 to 1890, is about 40,000,000 pounds, but in 1890, the year in which the largest trade, both import and export, is recorded, the balance in favor of exports was nearly 78,000,000 pounds. A steady increase in both branches of the trade is noticed, but the increase in imports has not kept pace with the increase in exports. In the wool trade it is interesting to note that throughout the period presented there has been a steady increase in importations and an equally regular decrease in exports. In the first year presented, 1881, there was a net balance in favor of exportation of nearly 3,000,000 pounds, while in 1889 the balance was in favor of

importation by more than 1,000,000 pounds. Taking the whole period there was a net exportation of a little more than 1,000,000 pounds each year, but the balance is on that side, because of the large shipments in the early part of the decade. The trade in raw cotton is very small, and apparently Denmark engages in the commerce only as a handler. The net balance in favor of imports is only 54,000 pounds a year. In the flour statement the figures of imports include both wheat and flour and wheat grits, but in exports they are given as including wheat flour only, although grits are not elsewhere stated. The net exportation of wheat flour is apparently about 70,000,000 pounds per annum, equivalent to about 1,500,000 bushels of wheat, which is more than the net importation of wheat during the ten years under consideration, thus making it appear that Denmark appears in the world's wheat market as an exporting country. In the case of rye flour for the whole period there is an average exportation of about 13,000,000 pounds per annum, but it should be pointed out that the greater part of this exportation is concentrated in the early years of the trade, while during the same period the importation was very small. During the last few years, however, conditions have been entirely reversed, and while the export trade has declined, there has been a very heavy increase in the imports. In 1890, for example, the net balance is in favor of imports by more than 3,000,000 pounds.

Production, imports, and exports.

WHEAT.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....		5,525,234	1,080,328			
1881.....	138,132	3,103,057	2,060,308	\$3,075,407	728,723	\$1,063,027
1882.....		4,554,480	2,294,597	2,958,065	733,443	970,395
1883.....		4,682,332	2,685,152	3,368,631	546,557	677,704
1884.....		4,969,944	2,466,461	2,590,556	626,835	662,945
1885.....		5,533,355	2,157,080	2,124,009	924,543	869,908
1886.....		5,201,640	1,675,599	1,613,244	1,008,821	1,041,901
1887.....		6,024,672	1,919,592	1,764,151	649,922	616,255
1888.....	119,964	3,805,465	1,932,453	1,832,351	652,924	638,151
1889.....		4,977,875	2,488,529	2,287,018	653,915	615,272
1890.....			1,509,387	1,541,292	1,118,689	1,126,016

MASLIN AND MAIZE.

Year.	Maslin—production.		Maize.			
			Imports.		Exports.	
	Area.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....		4,413,414	2,406,010	\$1,818,082	108,309	\$88,479
1881.....	160,065	3,771,276	794,664	676,218	40,553	35,889
1882.....		8,381,446	1,871,497	1,490,624	128,320	106,573
1883.....		7,272,706	1,747,039	1,284,456	328,332	254,807
1884.....		7,319,556	2,147,300	1,417,939	247,199	175,014
1885.....		7,885,451	1,776,553	1,027,993	176,943	109,614
1886.....		8,091,848	1,643,419	939,768	61,351	37,589
1887.....		8,248,971	895,430	597,380	12,369	9,010
1888.....	229,906	7,929,009	2,053,148	1,174,066	135,378	82,022
1889.....		7,038,040	5,189,205	2,790,750	426,338	255,405

Production, imports, and exports—Continued.

RYE.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....		17, 883, 919				
1881.....	661, 570	16, 402, 914	556, 548	\$591, 414	2, 370, 042	\$2, 675, 926
1882.....		16, 761, 301	1, 223, 938	1, 016, 105	889, 319	797, 371
1883.....		17, 479, 991	2, 120, 932	1, 674, 857	703, 369	588, 954
1884.....		16, 336, 733	1, 986, 951	1, 569, 055	562, 617	459, 607
1885.....		17, 485, 475	2, 170, 178	1, 625, 105	618, 528	463, 175
1886.....		16, 092, 778	2, 230, 633	1, 397, 041	301, 515	205, 259
1887.....		16, 690, 857	3, 891, 100	2, 172, 097	210, 012	131, 530
1888.....	694, 165	15, 686, 158	5, 280, 300	2, 947, 579	197, 309	120, 888
1889.....		17, 329, 758	3, 957, 027	2, 586, 028	212, 591	147, 617
1890.....			3, 027, 901	2, 143, 720	201, 454	153, 598

BARLEY.

1880.....		24, 631, 327				
1881.....	783, 190	21, 268, 433	85, 666	\$67, 549	4, 394, 068	\$4, 019, 197
1882.....		23, 816, 349	278, 766	211, 021	3, 319, 941	2, 753, 979
1883.....		21, 210, 180	801, 525	593, 973	2, 169, 096	1, 696, 015
1884.....		21, 252, 510	1, 014, 449	651, 132	1, 496, 851	1, 135, 451
1885.....		23, 216, 423	477, 742	356, 821	2, 512, 039	1, 758, 952
1886.....		24, 200, 241	194, 689	67, 549	3, 387, 831	2, 293, 116
1887.....		22, 974, 292	539, 540	211, 021	2, 904, 974	1, 915, 433
1888.....	736, 520	23, 488, 535	854, 053	593, 973	2, 614, 036	1, 754, 105
1889.....		19, 934, 581	728, 847	651, 132	1, 801, 406	1, 313, 916
1890.....			691, 171	356, 821	1, 684, 824	1, 248, 546

OATS.

1880.....		33, 090, 738				
1881.....	993, 654	29, 140, 200	707, 721	\$383, 463	850, 309	\$448, 908
1882.....		34, 517, 364	1, 247, 674	554, 687	407, 188	186, 683
1883.....		30, 072, 248	1, 527, 233	671, 334	924, 461	413, 563
1884.....		30, 261, 377	2, 299, 692	1, 073, 509	89, 647	43, 591
1885.....		33, 015, 055	1, 266, 718	576, 529	269, 827	118, 609
1886.....		34, 037, 619	1, 062, 251	442, 146	306, 117	134, 561
1887.....		30, 590, 869	1, 791, 731	613, 353	149, 191	52, 232
1888.....	1, 052, 850	33, 662, 697	3, 906, 377	1, 367, 639	40, 505	15, 441
1889.....		26, 573, 013	3, 073, 998	1, 291, 464	11, 733	5, 203
1890.....			1, 567, 782	683, 060	59, 674	24, 839

POTATOES.

1880.....		13, 050, 683				
1881.....	110, 557	11, 881, 009	179, 559	\$67, 039	16, 629	\$6, 208
1882.....		8, 177, 686	302, 973	113, 116	16, 641	6, 213
1883.....		15, 326, 479	213, 117	79, 568	23, 692	8, 846
1884.....		12, 878, 238	172, 441	64, 381	13, 336	4, 979
1885.....		13, 976, 548	203, 476	75, 969	22, 125	8, 260
1886.....		14, 715, 440	202, 007	68, 564	18, 295	6, 210
1887.....		15, 129, 826	170, 246	57, 783	13, 731	4, 661
1888.....	129, 143	11, 467, 807	79, 785	27, 080	27, 727	9, 411
1889.....		17, 448, 604	88, 964	30, 196	30, 167	10, 239
1890.....			39, 034	13, 249	22, 156	7, 520

Production, imports, and exports—Continued.

TOBACCO AND WOOL.

Year.	Tobacco.				Wool.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....	7,568,869	\$920,102	110,885	\$13,480	2,161,661	\$525,560	4,975,003	\$879,957
1882.....	7,475,115	908,705	156,107	18,977	3,161,244	730,158	4,523,714	758,341
1883.....	7,271,948	884,007	188,566	22,923	2,462,486	508,894	5,099,169	762,447
1884.....	7,625,813	927,024	243,819	29,639	2,588,797	503,527	3,674,412	494,471
1885.....	7,858,005	1,079,433	157,914	19,197	2,462,307	429,996	3,782,254	474,039
1886.....	6,924,797	841,806	134,851	16,393	2,434,794	481,594	4,212,196	600,124
1887.....	9,123,093	1,109,040	465,346	56,569	2,948,013	610,701	3,491,165	538,988
1888.....	7,269,555	883,716	368,943	44,850	3,080,539	658,515	3,059,241	477,511
1889.....	9,669,873	1,175,508	184,059	22,375	3,514,040	824,750	2,496,145	444,542
1890.....	7,522,196	914,428	299,468	36,405	3,254,821	730,274	2,821,319	484,618

BUTTER AND CHEESE.

Year.	Butter. †				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....	6,985,725	\$1,584,692	27,067,091	\$6,580,768	1,374,436	\$233,915	63,196	\$3,687
1882.....	7,534,634	1,725,566	31,541,441	7,600,138	1,594,505	271,368	117,727	6,869
1883.....	8,110,469	1,794,413	37,952,842	8,719,892	1,589,520	270,520	138,110	8,059
1884.....	9,113,400	2,027,386	36,536,042	8,460,996	1,723,324	293,292	224,214	13,083
1885.....	10,219,227	2,012,510	39,191,121	8,146,833	1,604,029	272,989	259,820	15,161
1886.....	9,180,994	1,752,243	44,496,203	8,925,075	1,381,192	178,364	476,297	20,844
1887.....	11,195,873	2,104,014	53,143,467	10,917,962	1,567,091	201,920	696,605	30,486
1888.....	13,589,366	2,577,085	66,481,784	13,577,410	1,430,633	184,348	573,809	25,112
1889.....	15,286,319	2,861,730	75,858,687	16,967,901	1,007,266	129,794	624,018	27,309
1890.....	20,592,540	3,704,901	98,372,278	20,807,838	1,105,844	142,497	83,603	3,659

WHEAT FLOUR AND RYE FLOUR.

Year.	Wheat flour.				Rye flour.			
	Imports.*		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	889,051				270,794			
1881.....	1,476,528	\$44,873	91,420,075	\$2,978,408	119,886	\$2,478	21,491,159	\$574,761
1882.....	2,976,780	87,572	90,616,559	2,842,053	601,016	10,594	22,259,488	492,483
1883.....	3,040,496	83,163	108,015,170	3,098,859	511,782	10,576	23,784,930	511,776
1884.....	8,717,590	206,650	86,539,940	2,104,028	702,078	14,253	18,634,485	385,098
1885.....	5,353,576	114,541	89,000,295	1,947,462	1,133,880	20,124	18,909,937	351,711
1886.....	6,167,291	127,452	81,653,311	1,727,142	1,107,938	18,856	14,285,952	251,815
1887.....	6,078,928	121,193	72,182,955	1,474,174	2,341,697	35,583	14,015,865	218,090
1888.....	6,975,207	139,909	61,928,256	1,279,802	1,589,475	24,153	10,318,953	160,565
1889.....	6,469,096	133,690	46,042,285	979,490	5,158,084	85,277	6,237,290	106,152
1890.....	6,624,651	141,736	39,127,088	856,160	8,725,413	155,922	5,060,854	92,283

* Including grits.

COTTON.

Year.	Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.
1881.....	865,950	\$123,964	1,123,615	\$160,850
1882.....	2,936,651	456,949	2,762,847	429,904
1883.....	1,634,967	222,603	1,542,556	210,022
1884.....	1,872,366	254,926	1,825,225	248,507
1885.....	1,360,081	163,353	1,251,556	150,319
1886.....	626,211	66,244	486,995	51,517
1887.....	3,750,610	429,404	3,625,218	415,048
1888.....	2,841,357	328,689	2,690,018	311,182
1889.....	1,879,192	232,645	2,037,185	252,205
1890.....	2,020,545	251,373	1,897,447	236,059

FRANCE.

The official authorities used in the compilation of the statements of production, imports and exports, which follow, are, for production, *Récoltes de la France en 1880, Statistique Agricole Annuelle*, and *Ministère de l'Agriculture, Bulletin No. 6, 1891*; for trade, *Tableau Décennal du Commerce de la France, 1880-1886*, and *Tableau Général du Commerce de la France*, for the years following.

In the production of wheat, France is exceeded only by the United States, and prior to 1874 she stood first. In the eleven years which are presented the acreage has been remarkably uniform, averaging 17,218,468 acres during the ten years 1881-1890, in no year of that period falling below 16,800,000 or rising to 17,500,000 acres. The production, of course, is not so uniform. Yet, as a rule, it does not vary far from 300,000,000 bushels. The average for the period is 309,432,798 bushels. This indicates an average yield per acre for the French crop during ten years of 18 bushels. Although second in wheat production this country does not supply its wants for consumption, there being an annual net importation averaging more than 37,000,000 bushels. The requirements for importation vary, of course, according to the size of the French crop, ranging from 23,000,000 bushels in 1885, following the large crops of 1884 and 1885, to 73,000,000 bushels in 1880, after short crops. In the statement of imports and exports spelt and maslin are included with wheat. The exports of these grains show a steady diminution year by year.

The tabulations for maize show a tendency to decrease the acreage and production in that crop, with a marked increase in the importation during the latter years of the period presented. In 1889 the imports closely approximated the production, while in 1890 they exceeded it. The dependence upon foreign fields for the supply of this grain is emphasized by the fact that while imports have steadily increased the exports have almost as steadily decreased.

The French are not a rye-eating people, and the production of that bread grain seems rather to be declining. The position of France in the market of the world is that of an exporter, though during recent years the tendency is apparently the other way. In 1888 and 1889 there was a net importation. The area devoted to barley is practically stationary, though the figures would seem to indicate a very slight tendency toward an actual decrease, and certainly a positive decrease in proportion to population. The figures of trade show quite steady gain in importation, with a still stronger tendency of decrease in exports. In the first five years of the decade there was an almost exact balance between the imports and the exports of this grain, but in the last five years there is an annual preponderance in favor of imports of more than 3,000,000 bushels.

The acreage and production of oats has increased during the decade

sufficiently to decrease the net importation of that cereal. The average production of 397,000,000 bushels is sufficient to meet the wants of consumption and leave a net exportation of nearly 4,000,000 bushels a year. The production of tobacco shows a normal increase during the decade, but it does not quite equal the average net importation of the same period. With the increase in production, however, there is a corresponding decline in importation.

In the decennial agricultural inquiry of 1882 an effort was for the first time made to determine the amount of butter and cheese produced in France, taking as a basis the quantity of milk used in their manufacture. The inquiry was subdivided so as to show the amount produced from unskimmed milk and from milk partly skimmed, and from skimmed milk. The following table shows the result arrived at, as presented in the census returns for 1882:

Classes of milk.	Quantity of milk used.	Butter produced.	Cheese produced.
	<i>Gallons.</i>	<i>Pounds.</i>	<i>Pounds.</i>
Unskimmed milk	93, 843, 328	.....	95, 685, 204
Milk partly skimmed	56, 794, 463	4, 999, 213	32, 569, 488
Skimmed milk	510, 720, 469	160, 017, 778	124, 604, 543
Total.....	661, 358, 260	165, 016, 991	252, 859, 235

It is stated that the milk thus used in the manufacture of dairy products constituted a little more than 36.7 per cent of the total quantity of milk produced during the year, leaving for consumption in its natural condition 1,140,438,718 gallons. In the trade in dairy products France appears as an exporting country, in the case of butter, and an importing country in the case of cheese. Yearly exportation of butter seems to be about stationary, but the trade records show a very large and increasing trade in the exportation of imitation butters, of oleo-margarine, etc. While the shipments of true butter increased from 68,000,000 pounds in 1880 to 87,000,000 in 1890, the shipment of these artificial compounds rose from 800,000 pounds in 1880 to more than 15,000,000 pounds in 1890. The figures on production of wool are taken from *Annuaire Statistique de la France*, and show an increase of nearly 50 per cent in production during the ten years—1880 to 1889, inclusive. The net importation of wool for ten years averages annually 300,000,000 pounds, which, with the average production of more than 100,000,000 pounds, indicates a domestic consumption of more than 400,000,000 pounds per annum, the largest aggregate consumption of any country in the world. In the imports and exports of cotton, only the trade in the raw product is presented. The official returns class cotton batting with raw cotton, amounting in imports to nearly 200,000 pounds per annum, and in exports to nearly 350,000 pounds per annum, but this item has been eliminated in the statement given. The statement of flour imports indicate an increasing demand for rye flour for

consumption in France. In the earlier portion of the decade there was an annual net exportation of from 10,000,000 to 20,000,000 pounds, but in the closing years there is a net importation ranging from 14,000,000 pounds in 1886 to 45,000,000 pounds in 1887. So heavy is the importation in these two years that there appears an average net importation of more than 3,000,000 pounds for the whole period, while in point of fact the exports have exceeded the imports in seven years out of eleven.

Production, imports, and exports.

WHEAT.

Year.	Production.		Imports.		Exports.*	
	Areas.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	17,000,171	282,250,549	73,484,598	\$117,726,686	326,799	\$514,968
1881.....	17,195,971	274,699,385	47,222,730	74,413,393	317,720	492,317
1882.....	17,069,154	346,610,624	47,571,524	71,839,561	308,659	466,117
1883.....	16,812,242	294,350,261	37,175,703	48,661,555	381,076	498,814
1884.....	17,426,038	324,130,397	38,761,347	45,687,823	145,202	171,149
1885.....	17,190,166	311,733,033	23,728,334	23,867,931	272,937	292,176
1886.....	17,188,689	304,427,095	26,078,529	29,601,716	104,002	119,069
1887.....	17,216,608	319,094,204	32,948,272	34,739,480	34,225	43,445
1888.....	17,242,969	280,176,816	41,729,856	44,754,069	49,280	62,124
1889.....	17,393,290	307,357,350	41,952,039	44,457,712	40,594	59,428
1890.....	17,449,557	331,748,810	38,771,617	43,854,968	21,583	28,439

*Includes maslin and spelt.

MAIZE.

1880.....	1,541,163	27,410,764	13,719,009	\$10,761,140	600,179	\$485,490
1881.....	1,501,409	23,842,363	12,411,363	9,735,426	480,808	388,929
1882.....	1,558,106	27,461,456	7,429,297	6,421,191	633,063	566,403
1883.....	1,556,520	28,484,479	9,284,484	7,455,679	570,574	468,535
1884.....	1,523,787	27,689,973	9,406,469	6,225,524	332,351	252,548
1885.....	1,386,004	25,617,129	12,621,390	7,969,638	212,571	143,292
1886.....	1,357,409	25,281,593	18,894,355	12,227,046	318,730	210,946
1887.....	1,379,619	29,469,810	14,457,078	9,284,689	366,893	247,319
1888.....	1,412,115	28,004,457	12,548,300	8,151,101	233,794	169,060
1889.....	1,379,685	25,964,683	20,539,868	13,090,509	514,573	378,403
1890.....	1,350,641	23,815,177	25,523,859	15,015,615	327,442	272,897

RYE.

1880.....	4,566,672	71,841,204	1,506,462	\$1,624,787	3,920,259	\$4,420,365
1881.....	4,391,629	67,338,503	34,093	35,099	6,907,913	7,450,494
1882.....	4,623,369	83,669,643	80,011	72,567	4,167,824	3,933,287
1883.....	4,249,295	70,490,883	107,762	84,211	4,095,706	3,513,901
1884.....	4,263,765	74,501,187	128,591	99,290	2,957,754	2,465,055
1885.....	4,133,862	68,310,906	100,431	73,854	1,411,901	1,057,653
1886.....	4,038,313	64,156,650	35,439	23,455	1,053,539	710,181
1887.....	4,013,638	67,182,673	728,227	446,264	626,799	433,275
1888.....	4,024,869	62,957,945	1,883,567	1,177,353	79,468	4,050,588
1889.....	3,952,355	65,622,312	842,220	478,960	243,896	168,593
1890.....	3,525,510	68,583,274	41,269	23,267	301,081	214,027

BARLEY.

1880.....	2,600,372	56,206,383	5,714,715	\$4,958,880	4,842,491	\$4,273,236
1881.....	2,530,158	49,895,204	4,706,692	3,856,729	7,720,036	6,650,311
1882.....	2,458,660	55,026,437	6,766,363	5,260,121	4,404,915	3,609,449
1883.....	2,632,972	58,811,691	5,446,744	3,799,390	5,997,936	4,496,405
1884.....	2,613,097	55,165,503	6,671,364	4,696,029	5,399,006	4,083,711
1885.....	2,361,327	49,416,308	1,898,805	3,448,051	5,355,148	4,050,538
1886.....	2,339,296	50,771,802	3,083,234	2,183,108	4,738,971	3,534,689
1887.....	2,308,942	47,976,501	6,375,772	4,130,387	2,860,657	2,103,646
1888.....	2,208,333	44,835,723	7,271,253	4,892,805	1,761,815	1,372,606
1889.....	2,158,416	44,848,191	7,025,353	4,249,856	2,400,401	1,876,606
1890.....	2,168,369	48,683,754	7,807,628	4,884,665	2,442,022	1,924,064

Production, imports, and exports—Continued.

OATS.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	8,584,044	237,755,476	25,007,419	\$14,711,794	638,673	\$384,675
1881.....	8,587,244	219,191,231	18,418,021	10,319,305	862,026	495,053
1882.....	8,691,278	254,517,791	21,891,492	10,732,253	867,910	437,648
1883.....	9,215,525	264,923,000	14,498,578	9,422,573	1,110,726	542,975
1884.....	9,135,571	249,922,829	20,204,291	9,650,404	1,213,929	593,425
1885.....	9,117,071	242,692,013	14,634,872	5,950,191	745,120	393,473
1886.....	9,231,888	253,356,774	9,958,950	4,971,633	621,401	313,344
1887.....	9,192,426	227,321,982	14,617,793	5,798,460	583,048	269,504
1888.....	9,227,398	241,067,687	26,981,362	10,960,468	162,107	77,883
1889.....	9,287,375	241,923,862	14,101,490	5,931,497	181,411	87,666
1890.....	9,342,176	265,690,158	10,287,284	4,453,527	208,355	109,442

POTATOES.

1880.....	3,220,860	393,184,694	779,062	\$368,293	6,016,819	\$3,160,427
1881.....	3,344,219	378,260,854	785,949	350,907	5,851,458	2,756,757
1882.....	3,322,395	317,789,967	555,660	262,682	6,128,666	3,058,217
1883.....	3,433,180	410,780,241	779,718	356,316	5,946,909	2,717,623
1884.....	3,498,595	423,664,804	716,854	301,231	4,410,264	1,853,247
1885.....	3,551,477	413,210,166	654,376	309,349	3,833,102	1,812,056
1886.....	3,615,693	414,750,086	664,418	209,397	3,720,843	1,270,379
1887.....	3,676,015	430,104,964	963,206	278,266	3,747,386	1,181,023
1888.....	3,572,900	380,113,414	1,004,320	395,651	4,277,137	2,021,968
1889.....	3,594,796	393,147,858	805,981	232,845	4,004,713	1,367,299
1890.....	3,619,415	405,639,026	865,694	295,567	4,448,022	1,752,294

TOBACCO.

Year.	Production.		Imports.		Exports.	
	Acres.	Pounds.	Pounds.	Value.	Pounds.	Value.
1880.....	27,554	29,407,159	53,570,883	\$4,689,821	1,625,240	\$82,523
1881.....	29,909	39,893,560	64,478,897	5,644,755	813,680	53,425
1882.....	32,380	37,596,146	60,447,218	5,291,805	684,971	36,132
1883.....	30,855	32,729,933	64,934,469	6,821,565	365,093	30,364
1884.....	32,815	35,852,969	53,861,855	5,941,271	54,630	6,692
1885.....	34,913	47,246,121	50,480,265	5,789,225	130,052	15,939
1886.....	37,171	49,351,073	56,710,088	6,205,801	118,142	14,480
1887.....	40,705	49,735,556	44,044,326	3,855,826	350,664	42,978
1888.....	40,734	50,560,517	31,730,444	3,472,271	111,950	13,721
1889.....	40,188	45,399,107	27,767,175	2,965,644	172,312	11,314
1890.....	38,172	49,052,350	36,707,324	4,177,569	74,716	4,906

WOOL.

Year.	Production (pounds).	Imports.		Exports.	
		Pounds.	Value.	Pounds.	Value.
1880.....	88,661,325	341,345,374	\$73,402,650	77,299,850	\$25,564,101
1881.....	86,747,796	312,207,304	60,245,776	64,989,048	20,384,191
1882.....	80,139,911	319,136,683	60,049,718	65,158,677	18,404,559
1883.....	78,330,190	355,396,732	65,289,856	69,331,196	18,361,771
1884.....	.....	374,991,783	65,505,718	72,568,915	18,520,750
1885.....	104,622,159	380,173,629	54,792,129	81,527,953	17,537,855
1886.....	118,942,579	437,707,633	76,308,183	107,639,996	25,479,522
1887.....	124,777,494	391,240,413	64,859,438	98,077,793	25,232,352
1888.....	125,598,723	386,949,886	65,862,083	104,667,258	25,381,151
1889.....	129,726,380	428,267,540	75,145,604	127,746,069	32,662,118
1890.....	.....	389,478,882	68,707,803	91,083,366	23,353,139

Production, imports, and exports—Continued.

BUTTER AND MARGARINE.

Year.	Butter.				Margarine—exports.	
	Imports.		Exports.		Pounds.	Value.
	Pounds.	Value.	Pounds.	Value.		
1880.....	15,641,716	\$3,671,680	68,484,843	\$16,004,350	809,992	\$99,201
1881.....	16,030,954	3,799,764	68,078,308	16,452,521	549,624	57,740
1882.....	13,975,167	3,284,990	84,644,469	21,859,815	6,154,509	754,308
1883.....	14,462,301	3,414,953	75,091,903	19,401,785	15,917,232	2,090,193
1884.....	14,546,299	3,325,749	76,744,599	19,764,621	13,327,755	1,866,829
1885.....	14,330,736	3,157,817	71,175,526	17,984,885	13,701,091	1,679,232
1886.....	14,877,007	3,227,331	64,824,350	15,893,906	9,689,135	1,102,696
1887.....	14,463,514	2,890,542	65,347,961	15,138,135	17,970,949	1,809,241
1888.....	12,775,763	2,550,737	69,059,650	16,214,897	15,810,498	1,453,324
1889.....	13,420,205	2,647,270	83,463,927	19,879,385	17,935,036	1,413,098
1890.....	14,164,738	2,782,598	87,579,946	21,188,081	15,082,460	1,188,344

CHEESE.

Year.	Imports.		Exports.	
	Pounds.	Values.	Pounds.	Values.
1880.....	34,811,710	\$4,831,029	9,407,683	\$1,418,246
1881.....	34,477,621	4,791,975	8,987,177	1,323,043
1882.....	37,606,417	5,366,457	9,773,649	1,451,239
1883.....	38,111,913	5,445,302	8,377,236	1,239,255
1884.....	34,585,625	4,951,676	8,986,743	1,329,477
1885.....	37,039,288	4,849,238	9,451,371	1,296,931
1886.....	37,772,792	4,643,479	9,866,372	1,264,734
1887.....	35,611,115	4,221,405	9,770,871	1,210,485
1888.....	32,069,165	3,930,432	11,361,000	1,404,713
1889.....	31,111,436	4,076,470	12,170,018	1,639,404
1890.....	28,725,722	3,880,493	12,232,137	1,682,962

MASLIN AND COTTON.

Year.	Maslin—production.		Cotton.			
	Acres.	Bushels.	Imports.		Exports.	
			Pounds.	Value.	Pounds.	Value.
1880.....	1,015,047	17,085,453	289,059,773	\$41,571,831	93,457,110	\$13,417,874
1881.....	991,901	17,045,963	336,057,978	43,511,612	95,542,664	12,379,029
1882.....	979,297	20,608,646	310,852,279	40,881,282	65,265,232	8,570,391
1883.....	906,674	16,141,224	318,092,464	39,583,442	62,896,890	7,598,638
1884.....	889,343	16,909,253	270,524,387	32,892,807	57,404,612	7,337,146
1885.....	817,785	14,728,813	290,518,806	34,474,858	52,306,139	6,273,363
1886.....	832,789	14,669,086	301,348,079	31,128,224	56,332,512	5,917,903
1887.....	809,203	14,524,206	341,493,737	39,246,525	74,730,210	8,639,702
1888.....	757,085	12,444,605	268,354,706	30,427,700	58,249,734	6,629,256
1889.....	740,262	12,940,033	316,178,518	39,158,489	43,089,421	5,469,733
1890.....	733,768	13,523,675	323,502,631	39,837,675	47,790,214	6,108,286

FLOUR OF WHEAT, SPELT, AND MASLIN, AND RYE FLOUR.

Year.	Flour of wheat, spelt, and maslin.				Rye flour.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	61,870,556	\$2,220,728	33,468,474	\$1,215,938	2,107,377	\$66,416	16,355,707	\$529,784
1881.....	51,960,879	1,842,294	36,803,813	1,312,949	240,522	7,422	21,363,897	673,303
1882.....	72,014,582	2,537,545	21,475,450	761,421	516,317	14,464	11,526,090	332,984
1883.....	94,994,009	2,823,341	27,062,788	810,263	638,011	17,873	13,026,761	376,338
1884.....	110,999,626	3,051,256	23,607,739	673,751	418,874	11,001	8,498,072	223,187
1885.....	65,773,800	1,735,496	19,039,587	518,210	2,155,878	55,677	4,667,359	122,580
1886.....	55,697,676	1,553,009	16,873,788	478,614	1,386,252	34,891	3,782,432	97,683
1887.....	42,047,674	975,138	10,639,841	308,498	16,477,180	418,230	1,901,908	49,117
1888.....	61,206,751	1,616,613	20,316,050	682,075	46,349,510	852,103	1,070,554	21,087
1889.....	67,423,061	1,781,813	25,081,734	774,006	33,580,467	558,557	792,774	14,922
1890.....	69,986,791	1,859,192	18,864,321	578,012	3,099,668	48,844	438,054	8,053

Production, imports, and exports—Continued.

BARLEY FLOUR AND MAIZE FLOUR.

Year.	Barley flour.				Maize flour (or meal).			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	320, 328	\$8, 413	291, 007	\$7, 770	2, 614, 435	\$57, 220	2, 643, 315	\$59, 009
1881.....	320, 108	8, 197	147, 488	3, 874	2, 514, 346	55, 077	3, 108, 045	69, 383
1882.....	279, 764	7, 041	188, 934	4, 879	2, 975, 328	70, 328	1, 148, 817	27, 657
1883.....	425, 047	10, 512	636, 909	16, 170	3, 836, 665	90, 687	1, 310, 414	31, 548
1884.....	692, 244	17, 120	355, 822	9, 034	3, 648, 393	79, 849	911, 382	20, 744
1885.....	133, 378	3, 299	558, 425	14, 177	1, 377, 214	28, 936	818, 788	18, 637
1886.....	106, 482	2, 647	514, 774	13, 069	304, 896	6, 700	1, 095, 025	25, 787
1887.....	582, 896	14, 288	232, 365	5, 798	527, 120	11, 652	1, 431, 447	33, 522
1888.....	460, 100	11, 479	466, 052	11, 832	371, 475	8, 130	960, 985	21, 453
1889.....	298, 282	7, 246	1, 090, 395	27, 683	285, 937	6, 195	1, 441, 147	31, 541
1890.....	1, 079, 152	25, 980	164, 463	4, 103	585, 101	11, 781	1, 645, 073	34, 564

GERMANY.

The statistics of this country both for acreage and production and for trade in the various products enumerated are from *Statistisches Jahrbuch für das Deutsche Reich*. The acreage and production figures for 1890 are from *Monatsheft zur Statistik des Deutschen Reichs* for July, 1891.

The statement of wheat production shows that during the past decade there has been a steady though comparatively small increase in the acreage devoted to the grain, the total increase between 1880 and 1890 being less than 10 per cent. The same increase, of course, is noted in the production, the crop rising from 86,000,000 bushels in 1880 to 104,000,000 bushels in 1890. In addition to this production the demands for domestic consumption require an importation of nearly 20,000,000 bushels per annum, the record showing that while importation is increasing to some extent during the period, there has been a marked decline in the export trade until, in 1890, it is practically nothing. There is no record of production of corn, but the imports average nearly 10,000,000 bushels per annum, and ranging from less than 4,000,000 in 1888 to more than 22,000,000 in 1890. This grain has heretofore and during the period under consideration been imported entirely for use other than human food, but there are indications that the effort which has been made by the Department of Agriculture to introduce it into Germany for culinary purposes is largely successful and that hereafter a considerable amount will be imported in the form of corn meal from this country for use as food.

There has been no marked change in the production of rye during the decade under consideration, although there is a very slight tendency towards decrease in the acreage devoted to the crop. The average production for the period is 238,000,000 bushels, and in addition to this, 30,000,000 bushels per annum were required from other countries to supply the demands for consumption. The production of barley is prac-

ically stationary, fluctuating only from year to year in accordance with seasons, and averages about 100,000,000 bushels per annum. In addition to this more than 18,000,000 bushels per annum were imported from abroad. In the earlier years of the decade there was considerable export trade in this product, but it has gradually fallen away until it is now of little importance. The acreage devoted to oats show a steady though comparatively slight enlargement from year to year, and the same increase is apparent in the crop. The average production is 300,000,000 bushels, while the crop of 1890 amounted to 338,000,000 bushels. The net importation amounts to about 14,000,000 bushels per annum for the whole period, but, as in the case of some other grains, the considerable export trade which existed in the earlier part of the period has become insignificant toward the close, making the present net imports larger than this average would indicate.

In the production of potatoes Germany stands first in the countries of the world, with a crop averaging 892,000,000 bushels for ten years past, or more than double that of France, the country second in production. In 1885 the production exceeded 1,000,000,000 bushels. The acreage has increased from 6,800,000 in 1880 to 7,100,000 in 1890. Only about 5,000,000 bushels of this enormous product is exported each year, and for two years past even this average has not been reached. The importance of the tobacco crop is steadily declining, the acreage having declined from 67,000 in 1881 to 50,000 in 1890, and the production from 135,000,000 pounds in the former year to 93,000,000 in the latter. The average production for the whole period is a little less than 91,000,000 pounds. With the decline in production there has been a steady and commensurate increase in importations, rising from 22,000,000 pounds in 1880 to 105,000,000 pounds in 1890. In 1886 the importation exceeded the production for the first time in the period under consideration, and since that time there has been a steady increase in imports and a decline in production.

In the matter of dairy products the average exportation of butter is more than double the average imports, or 25,000,000 pounds, against 12,000,000. During the last two years presented, however, the balance of trade was in favor of importation by 6,000,000 pounds in 1889 and 4,000,000 pounds in 1890. With this exception the balance has been in favor of exports during the whole period. The tendency toward enlarged imports is apparent, but there is no marked indication of any permanent diminution in the export trade. In the matter of cheese the balance of trade is in favor of importation, the average imports for the ten years under consideration being about 12,000,000 pounds, against 7,000,000 exported. In the case of this trade there is a marked and regular tendency toward an increase in imports, the rise being from 9,000,000 pounds in 1880 to 19,000,000 in 1890, and the decrease quite as regular in the exports, the trade falling off from 9,000,000 pounds in 1880 to 3,000,000 in 1890.

The wool trade of Germany shows the balance in favor of importation, or something more than 200,000,000 pounds each year during the decade, 1881 to 1890. A steady increase in the amount of foreign wool used is apparent, but there is little change in the amount of wool shipped out of the country each year. The net importation of raw cotton shows a similar increase during the years presented, averaging for the period something more than 440,000,000 pounds.

While Germany shows a net importation of wheat amounting to nearly 10,000,000 bushels per annum, she has at the same time a net annual shipment of flour of more than 230,000,000 pounds. It is impossible to separate in this statement flour of wheat from flour of other cereals. If it were of wheat flour alone it would be equivalent to a net shipment of about 5,200,000 bushels of grain. As, however, a considerable portion of it is undoubtedly of rye and other lighter grains, it in reality represents a shipment of more than that quantity of grain.

Production, imports, and exports.

WHEAT.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels	Value.
1880.....	4,485,433	86,173,331	8,361,056	\$11,210,514	6,546,560	\$9,731,820
1881.....	4,490,813	75,659,631	13,299,213	18,090,142	1,961,653	2,985,948
1882.....	4,500,647	93,822,154	25,251,525	32,221,868	2,296,532	3,086,622
1883.....	4,746,667	86,379,094	23,585,913	28,187,054	2,967,318	3,796,100
1884.....	4,741,730	91,082,424	27,723,286	27,115,578	1,329,851	1,507,492
1885.....	4,729,052	95,505,881	21,032,729	18,391,926	517,346	519,316
1886.....	4,736,000	97,973,269	10,041,218	9,495,962	304,749	306,068
1887.....	4,743,534	104,013,175	20,107,973	18,494,980	104,351	98,056
1888.....	4,777,276	92,991,571	12,484,172	11,644,388	40,859	47,600
1889.....	4,834,366	87,170,362	18,992,151	17,942,582	27,851	37,004
1890.....	4,843,842	104,020,781	24,713,088	24,787,462	7,509	10,234

RYE.

1880.....	14,629,971	194,970,297	27,146,618	\$27,899,788	1,046,673	\$1,221,178
1881.....	14,612,221	214,491,990	22,654,391	24,378,578	455,250	558,586
1882.....	14,646,136	251,576,630	25,915,073	20,680,534	620,241	553,112
1883.....	14,361,096	220,462,677	30,590,636	24,041,808	477,690	433,160
1884.....	14,409,296	214,593,874	37,854,557	27,004,432	247,460	216,818
1885.....	14,397,573	229,124,669	30,301,479	20,150,746	158,298	129,234
1886.....	14,427,927	239,862,409	22,253,272	13,049,778	125,898	79,968
1887.....	14,436,274	250,998,985	25,138,109	12,917,688	123,536	74,732
1888.....	14,367,019	217,418,439	25,699,770	13,983,214	89,500	72,590
1889.....	14,336,468	211,146,589	41,719,339	26,999,672	23,936	24,276
1890.....	14,381,769	231,007,869	34,639,896	23,346,134	4,685	4,998

BARLEY.

1880.....	4,012,902	98,546,401	10,208,722	\$8,834,322	7,091,877	\$7,974,666
1881.....	4,035,830	95,356,299	11,382,534	9,437,414	5,480,176	5,750,556
1882.....	4,033,688	103,632,505	17,115,412	13,658,344	3,662,530	3,681,800
1883.....	4,326,437	97,884,332	14,766,549	12,434,310	3,804,037	3,351,040
1884.....	4,287,840	102,403,578	20,212,508	15,082,536	1,711,550	1,667,428
1885.....	4,298,364	103,829,541	20,118,628	13,344,422	1,134,726	970,088
1886.....	4,278,487	107,345,924	16,254,148	10,865,414	2,667,566	2,488,052
1887.....	4,277,600	101,296,961	23,493,963	14,000,350	952,938	790,160
1888.....	4,257,817	103,827,015	20,428,421	11,909,044	1,067,623	968,184
1889.....	4,163,635	89,029,969	29,919,270	21,766,052	1,015,632	1,100,036
1890.....	4,112,209	104,876,129	33,771,349	23,326,142	295,095	320,110

Production, imports, and exports—Continued.

OATS.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	9,249,576	291,291,593	11,139,155	\$4,925,648	3,001,287	\$1,606,976
1881.....	9,252,993	259,025,963	18,090,810	8,249,556	2,176,422	1,203,090
1882.....	9,251,921	310,576,883	18,936,687	7,719,292	1,776,012	920,346
1883.....	9,298,899	256,179,274	17,917,611	7,427,742	2,881,343	1,418,480
1884.....	9,311,536	291,879,739	25,243,566	16,290,406	1,276,395	661,402
1885.....	9,332,567	299,161,258	15,024,556	5,761,266	883,287	427,210
1886.....	9,405,948	334,540,747	5,582,529	1,851,402	1,136,265	500,514
1887.....	9,415,113	296,340,059	11,545,008	3,230,612	570,785	197,064
1888.....	9,470,078	320,189,421	12,487,888	3,796,338	125,042	58,310
1889.....	9,603,855	289,155,612	17,774,863	7,262,808	22,597	13,804
1890.....	9,646,833	338,512,472	12,932,528	5,185,306	31,071	19,278

SPELT.

1880.....	954,836	29,966,638	.....	.....	.....	.....
1881.....	933,902	27,497,670	.....	.....	.....	.....
1882.....	945,966	28,069,335	.....	.....	.....	.....
1883.....	924,614	27,360,250	.....	.....	.....	.....
1884.....	930,821	29,430,002	.....	.....	.....	.....
1885.....	925,520	28,564,696	5,573	\$3,332	53,768	\$30,940
1886.....	920,524	27,033,295	5,512	3,332	34,416	19,992
1887.....	916,039	27,991,010	3,919	2,142	15,310	8,806
1888.....	903,165	20,577,308	8,022	4,522	4,409	4,046
1889.....	904,658	18,366,645	4,470	2,856	1,960	1,666
1890.....	918,372	30,501,131	4,409	2,856	612	476

POTATOES.

1880.....	6,827,210	715,254,619	1,116,299	\$361,522	21,272,590	\$12,401,228
1881.....	6,838,586	936,625,118	1,193,791	386,750	8,466,583	2,741,918
1882.....	6,833,667	663,927,489	971,714	377,706	8,573,506	3,332,000
1883.....	7,181,376	915,145,296	1,327,243	515,746	12,527,272	4,665,752
1884.....	7,184,754	882,560,206	1,261,950	359,618	4,867,059	1,623,636
1885.....	7,206,259	1,027,110,023	1,592,566	319,872	4,650,420	1,129,548
1886.....	7,204,811	923,846,044	1,114,315	288,694	5,814,669	1,412,292
1887.....	7,210,741	928,614,190	1,830,737	385,322	4,852,214	1,021,496
1888.....	7,216,135	805,083,030	2,159,479	671,398	7,902,609	2,815,302
1889.....	7,209,686	977,518,354	2,012,028	742,560	4,398,324	1,455,846
1890.....	7,180,405	856,890,652	3,629,837	1,022,686	3,328,138	1,013,166

TOBACCO.

Year.	Production.		Imports.		Exports.	
	Acres.	Pounds.	Pounds.	Value.	Pounds.	Value.
1880.....	59,944	115,073,506	22,764,700	\$3,139,696	412,260	\$42,126
1881.....	67,330	135,172,844	45,509,558	6,296,052	6,296,338	646,408
1882.....	54,962	85,926,490	63,880,490	12,317,452	7,744,760	667,828
1883.....	54,530	86,014,674	67,178,571	10,484,376	4,649,501	401,506
1884.....	52,116	104,041,688	76,030,040	11,918,802	11,261,097	990,556
1885.....	48,256	84,982,921	84,429,566	13,354,656	11,836,497	1,028,160
1886.....	49,032	85,064,491	87,015,562	12,941,726	6,547,662	501,228
1887.....	53,042	90,093,184	93,106,872	15,390,270	2,021,618	185,402
1888.....	44,557	58,108,847	94,420,813	14,211,694	2,905,663	147,084
1889.....	42,988	86,005,855	99,639,102	16,968,448	3,366,424	147,084
1890.....	49,702	93,415,516	105,554,043	18,707,990	4,395,972	206,822

Production, imports, and exports—Continued.

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	11,025,205	\$1,792,140	27,480,339	\$5,043,458	9,063,111	\$1,174,054	9,572,373	\$1,239,980
1881.....	10,800,335	1,662,192	25,335,263	4,786,180	8,522,984	1,195,950	8,875,720	1,149,778
1882.....	10,282,254	1,802,136	25,703,431	4,855,676	8,399,526	1,468,936	9,261,525	1,199,758
1883.....	10,771,676	1,884,008	27,744,891	4,941,832	8,959,494	1,547,476	8,459,050	1,095,990
1884.....	8,359,843	1,186,430	29,964,923	4,528,902	9,687,012	1,073,378	9,889,836	1,281,154
1885.....	9,444,506	1,241,884	31,027,540	5,024,180	10,147,160	1,161,680	8,818,400	1,142,400
1886.....	11,285,347	1,509,158	27,136,421	4,394,432	11,499,194	1,787,618	7,515,481	973,420
1887.....	10,035,339	1,344,700	32,337,073	5,236,238	11,984,206	1,863,064	7,123,063	922,726
1888.....	12,085,617	1,619,828	30,094,995	4,873,526	12,187,029	1,776,194	7,473,594	927,962
1889.....	20,822,447	3,532,396	14,755,388	2,867,186	18,866,967	2,749,852	3,077,622	382,928
1890.....	19,627,554	3,009,272	15,511,566	3,014,270	19,477,641	2,998,324	3,265,013	405,314

WOOL AND COTTON.

Year.	Wool.				Cotton.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	151,579,478	\$49,091,546	31,580,895	\$11,933,082	327,722,608	\$42,455,392	.....	.....
1881.....	170,574,311	46,036,340	26,642,591	11,504,920	346,276,522	41,120,926	.....	.....
1882.....	195,111,509	48,446,090	29,612,187	11,828,124	343,606,751	42,658,644	.....	.....
1883.....	200,550,257	47,631,654	28,046,921	10,899,924	416,874,428	49,504,476	.....	.....
1884.....	232,951,264	52,811,962	26,265,604	9,357,208	391,506,096	48,182,624	.....	.....
1885.....	217,792,434	39,970,434	22,255,437	6,487,166	386,212,851	44,365,104	42,215,885	\$3,925,334
1886.....	239,606,951	51,734,298	28,732,552	9,615,438	400,606,684	41,732,348	47,127,734	4,120,018
1887.....	244,373,296	51,443,938	21,968,839	7,233,772	494,412,414	53,520,726	55,824,881	5,207,202
1888.....	289,984,266	58,854,306	28,302,655	9,013,774	460,075,769	50,884,876	58,413,082	5,641,552
1889.....	308,361,811	66,579,072	24,069,823	7,925,162	575,208,800	66,639,524	66,541,442	6,948,648
1890.....	283,542,424	58,159,103	19,872,264	6,221,558	591,148,058	69,049,036	77,412,324	8,327,382

MAIZE AND FLOUR.

Year.	Maize.				Flour.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	13,410,267	\$9,566,648	.....	.....	.....	.....	177,637,850	\$5,561,346
1881.....	16,942,902	12,291,510	.....	.....	.....	.....	110,349,048	3,216,570
1882.....	3,803,840	3,265,360	.....	.....	.....	.....	204,683,882	5,303,354
1883.....	6,975,591	5,397,840	.....	.....	.....	.....	300,017,400	7,773,318
1884.....	7,558,707	5,209,344	.....	.....	.....	.....	289,752,783	6,881,770
1885.....	7,728,737	4,719,064	9,133	\$6,426	47,866,275	\$1,395,156	284,488,198	6,142,542
1886.....	6,668,521	3,870,118	5,551	3,570	37,467,177	991,032	293,738,699	5,866,462
1887.....	6,284,488	3,495,268	7,598	4,522	46,821,295	1,263,780	291,401,823	5,505,178
1888.....	3,708,610	2,466,156	1,496	1,190	24,038,958	648,788	333,176,789	6,294,386
1889.....	12,385,522	7,296,128	2,913	2,142	30,692,441	861,560	320,213,741	6,568,086
1890.....	22,122,098	12,949,104	2,913	2,380	31,678,973	887,502	256,183,338	5,116,524

GREECE.

Estimates of acreage and production of the various crops are not available for this country. The statement of trade is taken from *Commerce de la Grèce avec les Pays Étrangers*. This volume is available for only four years.

The figures on the trade of wheat cover only two years, 1889 and 1890, the average net importation being nearly 9,000,000 bushels. No state-

ment of tobacco imports appears in the official record, but there is an average exportation amounting to over 6,000,000 pounds. It can not be definitely stated that this is leaf tobacco entirely, and it may perhaps be assumed that it represents, in part at least, tobacco which has been imported.

Imports and exports.

WHEAT, POTATOES, AND TOBACCO.

Year.	Wheat				Potatoes—exports.		Tobacco—exports.	
	Imports.		Exports.		Bushels.	Value.	Pounds.	Value.
	Bushels.	Value.	Bushels.	Value.				
1887.....	.....	.....	.....	.....	.....	.....	5,929,702	\$447,343
1888.....	.....	.....	.....	.....	.....	.....	6,096,779	484,574
1889.....	9,924,712	\$6,516,384	1,328	\$1,363	108	\$111	6,670,503	540,446
1890.....	8,056,450	5,289,717	28,254	28,985	575	590	7,393,538	675,793

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1887.....	504,898	\$83,250	9,485	\$1,726	1,344,090	\$121,162	489,244	\$41,781
1888.....	354,545	61,029	5,494	999	513,610	55,053	588,915	53,714
1889.....	639,110	131,128	7,058	1,471	416,527	45,579	590,681	54,536
1890.....	631,617	133,764	5,449	1,118	702,444	82,185	606,118	55,962

WOOL AND FLOUR.

Year.	Wool—exports.		Flour—imports.	
	Pounds.	Value.	Pounds.	Value.
1887.....	500,925	\$44,046	.....	.....
1888.....	503,944	43,182	.....	.....
1889.....	441,017	60,323	4,414,050	\$54,099
1890.....	362,805	49,626	3,804,258	46,626

ITALY.

Prior to 1889 the Italian Government made no annual statement of the acreage devoted to the various crops, but gave each year an estimate of the aggregate production. The figures on acreage and production for the five year period, 1879 to 1883 inclusive, and on production from 1884 to 1889, are taken from the *Annuario Statistico Italiano* for 1889 and 1890, while the figures on acreage and production for 1890 and 1891 are from *Tavola Sinottica dei Principali Elementi Statistici Compresi nell' Annuario Statistico Italiano*, September 18, 1892. It is stated in the last-named volume that the figures as to the area cultivated between 1884 and 1889, inclusive, are not known, and in the work first mentioned there is another statement that the area cultivated is

not determined year by year, but is included in the form of an average for the period comprising a varying number of years. It would appear, however, that the plan of estimating the area year by year has now been adopted.

The figures on trade represent the special commerce of the country, and are taken from the official report of the foreign trade, *Movimento Commerciale del Regno d'Italia*.

With a wheat crop which during the eight years 1884 to 1891, inclusive, averaged more than 122,000,000 bushels, Italy imports wheat to the extent of 20,000,000 bushels as an average for the past ten years. Production is not keeping pace with the increasing demand for consumption, and the ten years under consideration show a marked change in the relation between imports and exports of this grain. In 1881 the balance in favor of imports was less than 2,000,000 bushels, while in 1890 it was more than 23,000,000 bushels, and during the latter years of the decade it has averaged even more than this. Dividing the ten years into two periods, it appears that from 1881 to 1885, inclusive, the average was less than 10,000,000 bushels per annum, while during the last five years, or from 1886 to 1890, it has averaged more than 30,000,000 bushels. The production of maize appears to be declining, the average for the eight years, 1884 to 1891, being 81,000,000 bushels, against 84,000,000 bushels for the preceding five years. There is a net importation of nearly 2,000,000 bushels, and the balance has been on the side of imports for every year of the period except 1885, when, following the large crops of 1884 and 1885, there was a net exportation. The potato crop of Italy averages about 27,000,000 bushels, practically grown entirely for domestic consumption, as the balance in favor of exportation is insignificant.

It will be noticed that in the case of tobacco the acreage is given for the whole period under consideration. This comes from the same official source as the other figures presented, and the reason for the detail in this crop is the fact that tobacco production in Italy is entirely under the control of the Government, making it possible to present accurate statistics of acreage where even estimates for other crops are not available. The importance of the crop seems to be steadily diminishing, production having decreased from 14,000,000 pounds in 1881 to 5,000,000 pounds in 1890, the acreage during the same period declining from more than 14,000 to something more than 4,000. The official trade statement declares that the imports and exports given cover the trade in tobacco leaves and stems, unmanufactured. The increase in importation during the period under consideration is not marked, the average of the first five years of the decade being 33,000,000 pounds, against 36,000,000 pounds for the last five years.

No annual statement of butter production is available, but an official estimate of the amount produced in 1890 was 64,953,107 pounds, valued at \$12,440,824. In the butter trade Italy appears as an exporting coun-

try, shipping annually during the past decade something more than 6,000,000 pounds. The shipments in 1890, the year for which the estimate of production is given above, was 6,723,148 pounds. The production of cheese in 1890 was officially estimated at 228,978,909 pounds, valued at \$24,794,768. In addition to this there was a production of *ricotta* (which is defined in Baretto's dictionary as "a kind of new cheese," and in Fanfani's dictionary as "cream separated from the whey by means of fire"), amounting to 23,307,300 pounds, and valued at \$1,949,475. It might perhaps be assumed that *ricotta* is a product somewhat similar to smearcase or cottage cheese. During the decade there was a net importation of about 11,000,000 pounds per annum of cheese. The aggregate production of cheese and *ricotta* in 1890 was 262,286,209 pounds, and the average net importation of cheese during the years 1889 and 1890 was about 5,500,000 pounds, giving a total for domestic consumption of not less than 267,000,000 pounds. From this it would appear that the consumption of cheese is about 4 pounds for each pound of butter consumed.

In the *Annuario Statistico Italiano* for 1884 the following paragraph relative to wool production in Italy appears:

In the monograph of V. Ellena, which serves as an explanation of statistics of certain Italian industries in 1876, published by the Ministry of Agriculture, Industry, and Commerce, the annual product of wool in Italy is estimated at 100,000 quintals. (22,046,000 pounds).

The same volume for 1889 and 1890 gives the statement of the wool production at the present date of 10,863,298 kilograms of white wool, and 1,108,865 kilograms of dark wool in 1890. Combining the two it gives the production of Italy for the year named as 26,393,831 pounds. In the statement of trade it appears that there is an annual importation of wool amounting to about 18,000,000 pounds, as the average for the past decade. In the statement of imports and exports, in addition to raw wool, it is specified that the figures include wool in the grease, washed, combed, carded, dyed, and waste and flocks. While it is impossible to separate the different items of wool for the whole period under consideration, enough facts are at hand to indicate that included in the statement of exports there is an average of about 551,150 pounds each year, under the head of waste and flocks, and in imports about 3,417,130 pounds.

In the statement of flour it would appear that wheat flour is the main item, but it is certain that flours of all other grains are included, and to a very limited extent flour of various leguminous seeds, rice, chestnut, etc. These remarks more particularly apply to the imports of the years 1888, 1889, and 1890. There appears that in addition to a considerable importation of wheat, as already pointed out, there is a net importation of an average of about 8,000,000 pounds of flour each year. The trade, however, in both imports and exports, appears to be declining, it being much larger in the first half than in the second half of the decade.

Production, imports, and exports.

WHEAT.

Years.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1879-1883.....	10,956,545	132,119,675				
1881.....			5,414,424	\$7,678,825	3,482,901	\$4,939,507
1882.....			6,047,953	7,783,111	3,535,150	4,549,384
1883.....			8,539,334	10,316,458	2,947,073	3,560,389
1884.....	123,303,563	13,049,248	14,736,783	14,736,783	1,394,520	1,574,860
1885.....	117,027,013	26,586,962	27,232,159	27,232,159	478,214	552,617
1886.....	119,793,575	34,400,321	37,042,059	37,042,059	282,997	341,892
1887.....	126,223,350	37,326,083	39,212,196	39,212,196	174,715	197,309
1888.....	110,095,000	24,610,280	28,439,241	28,439,241	96,819	116,968
1889.....	108,934,463	32,067,487	33,687,880	33,687,880	20,944	26,402
1890.....	10,890,693	131,433,000	23,698,936	24,896,460	15,359	19,262
1891.....	11,124,531	141,455,050				

CORN.

1879-1883.....	4,674,714	84,163,088				
1881.....			4,324,441	\$7,498,078	619,729	\$501,304
1882.....			4,166,930	3,472,807	609,729	508,161
1883.....			1,238,198	1,001,589	918,413	742,912
1884.....	95,425,125	515,601	515,601	366,520	978,055	695,259
1885.....	84,168,763	915,972	915,972	651,127	1,157,179	822,591
1886.....	86,691,300	2,183,223	1,551,964	1,551,964	486,665	345,951
1887.....	83,527,488	1,049,193	642,955	642,955	655,081	433,555
1888.....	72,657,025	85,350	58,579	58,579	933,176	686,231
1889.....	82,054,825	6,234,136	4,278,779	4,278,779	320,297	245,388
1890.....	4,724,110	74,961,075	6,274,685	4,306,610	359,271	273,004
1891.....		66,292,513				

BARLEY.

1879-1883.....	834,279	10,924,375				
1883.....			156,159	\$118,116	693,117	\$524,261
1884.....	9,735,463	321,504	321,504	236,425	731,789	538,137
1885.....	9,133,913	527,634	527,634	388,007	124,835	91,800
1886.....	9,423,338	1,005,252	1,005,252	718,112	55,115	39,372
1887.....	8,342,250	748,737	748,737	471,943	72,155	45,480
1888.....	7,420,063	465,125	465,125	293,177	112,618	70,985
1889.....	8,381,975	651,367	651,367	424,255	60,810	39,607
1890.....	820,745	10,961,263	449,279	292,629	290,686	189,332
1891.....		9,349,563				
1892.....		6,980,250				

OATS.

1879-1883.....	1,079,187	18,389,838				
1881.....			415,636	\$227,052	422,801	\$230,966
1882.....			536,682	278,142	153,633	79,622
1883.....			768,579	376,794	246,984	121,083
1884.....	16,162,400	590,557	590,557	272,975	146,399	67,671
1885.....	16,894,475	2,031,677	2,031,677	967,567	51,326	24,443
1886.....	15,895,675	2,668,186	2,668,186	1,233,325	28,798	13,311
1887.....	17,935,838	3,244,000	3,244,000	1,408,608	27,764	12,016
1888.....	15,194,813	1,222,382	1,222,382	547,904	27,764	12,445
1889.....	17,339,963	1,320,280	1,320,280	591,784	5,512	2,470
1890.....	1,119,724	19,011,250	1,986,620	901,586	16,672	7,566
1891.....	1,107,843	19,888,038				

POTATOES.

1879-1883.....	371,288	32,271,670				
1881.....					462,047	\$266,967
1882.....					257,938	135,486
1883.....					380,918	200,083
1884.....	29,361,598				256,652	121,329
1885.....	29,244,019				328,890	155,479
1886.....	27,502,385				542,993	242,433
1887.....	27,087,185				411,378	172,866
1888.....	24,559,244				559,197	234,981
1889.....	22,178,276		105,968	\$44,529	302,214	126,994
1890.....	429,724	27,605,266	275,391	115,723	290,052	121,883

Production, imports, and exports—Continued.

TOBACCO.

Years.	Production.		Imports.		Exports.	
	Acres.	Pounds.	Pounds.	Value.	Pounds.	Value.
1881.....	14, 574	14, 205, 960	33, 724, 207	\$3, 395, 214	.....	.....
1882.....	12, 244	12, 645, 138	47, 054, 762	4, 902, 054	.....	.....
1883.....	10, 917	11, 901, 048	20, 927, 166	2, 240, 600	.....	.....
1884.....	10, 299	13, 267, 045	28, 754, 157	3, 347, 956	.....	.....
1885.....	10, 892	13, 519, 754	32, 449, 507	3, 928, 781	.....	.....
1886.....	9, 696	11, 658, 218	51, 757, 835	6, 035, 425	.....	.....
1887.....	8, 871	8, 961, 650	34, 851, 860	3, 620, 784	.....	.....
1888.....	4, 710	4, 755, 126	31, 423, 927	2, 971, 062	74, 075	\$7, 911
1889.....	4, 005	3, 875, 023	32, 054, 884	3, 718, 242	.....	.....
1890.....	4, 685	5, 057, 815	28, 762, 534	3, 032, 923	.....	.....

BUTTER AND CHEESE.

Years.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....	538, 804	\$127, 419	5, 958, 255	\$1, 410, 093	19, 834, 125	\$3, 299, 090	6, 102, 553	\$1, 015, 062
1882.....	395, 946	93, 602	6, 722, 927	1, 591, 498	20, 100, 661	3, 255, 439	7, 219, 183	1, 169, 196
1883.....	605, 162	143, 007	6, 018, 999	1, 412, 029	19, 794, 442	3, 205, 845	8, 462, 798	1, 370, 608
1884.....	583, 779	137, 964	7, 813, 102	1, 811, 982	19, 225, 214	3, 113, 655	8, 391, 589	1, 359, 075
1885.....	592, 597	134, 862	7, 086, 687	1, 597, 801	23, 281, 458	3, 668, 683	7, 724, 918	1, 217, 290
1886.....	731, 046	159, 978	7, 679, 063	1, 665, 424	26, 460, 271	3, 937, 955	8, 600, 145	1, 279, 918
1887.....	889, 556	186, 859	6, 484, 390	1, 349, 807	27, 225, 267	4, 051, 805	11, 093, 768	1, 651, 032
1888.....	940, 042	197, 233	6, 233, 947	1, 269, 116	19, 329, 712	2, 876, 748	11, 803, 649	1, 756, 680
1889.....	1, 030, 430	216, 334	7, 125, 708	1, 443, 209	19, 833, 023	3, 038, 467	13, 893, 610	2, 128, 534
1890.....	705, 913	145, 172	6, 723, 148	1, 331, 905	17, 059, 195	2, 613, 510	12, 559, 386	1, 924, 128

WOOL AND COTTON.

Years.	Wool.				Cotton.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....	21, 022, 404	\$7, 361, 560	1, 982, 156	\$780, 868	106, 883, 638	\$15, 439, 125	36, 802, 049	\$5, 315, 981
1882.....	16, 553, 019	5, 796, 485	2, 551, 604	1, 005, 202	138, 626, 571	19, 417, 529	32, 228, 386	4, 514, 255
1883.....	21, 031, 443	6, 171, 074	3, 851, 657	1, 231, 842	148, 388, 760	17, 537, 282	49, 073, 294	5, 799, 713
1884.....	22, 203, 408	5, 677, 323	3, 194, 465	796, 831	145, 790, 659	16, 592, 067	44, 794, 826	5, 097, 987
1885.....	24, 495, 752	5, 599, 502	1, 672, 830	388, 669	173, 190, 639	17, 436, 059	42, 217, 649	4, 250, 298
1886.....	26, 771, 340	6, 486, 661	5, 121, 727	1, 373, 961	149, 900, 234	14, 435, 190	38, 311, 098	3, 689, 307
1887.....	24, 533, 671	5, 331, 664	2, 882, 074	662, 855	167, 970, 017	16, 910, 526	28, 937, 800	2, 913, 338
1888.....	20, 210, 450	4, 536, 280	2, 884, 940	652, 626	165, 297, 381	16, 641, 455	29, 297, 370	2, 949, 538
1889.....	21, 162, 176	5, 678, 728	3, 906, 992	931, 652	198, 067, 657	21, 674, 600	34, 957, 901	3, 825, 453
1890.....	17, 794, 429	5, 184, 271	2, 893, 758	705, 680	224, 286, 534	24, 543, 714	39, 944, 927	4, 371, 185

RYE AND FLOUR.

Years.	Rye—production.		Flour.			
	Acres.	Bushels.	Imports.		Exports.	
			Pounds.	Value.	Pounds.	Value.
1879-1883.....	396, 089	5, 221, 000	.....	.....	.....	.....
1881.....	8, 929, 071	\$328, 309	15, 179, 994	\$504, 990
1882.....	11, 765, 068	401, 686	12, 355, 901	378, 591
1883.....	10, 770, 132	348, 859	11, 965, 907	356, 166
1884.....	4, 752, 813	18, 252, 986	527, 321	10, 439, 001	301, 579
1885.....	4, 406, 658	39, 222, 259	1, 030, 105	13, 297, 486	349, 235
1886.....	4, 562, 700	48, 748, 115	1, 322, 961	11, 743, 684	318, 708
1887.....	4, 662, 013	22, 178, 937	563, 075	10, 519, 028	267, 055
1888.....	3, 927, 100	5, 933, 020	160, 792	7, 320, 154	162, 907
1889.....	4, 111, 538	2, 351, 206	65, 507	2, 051, 380	48, 272
1890.....	348, 952	4, 426, 500	2, 116, 196	59, 010	2, 080, 922
1891.....	350, 121	4, 579, 725	.....	.....	48, 562

NORWAY AND SWEDEN.

NORWAY.

The statistics of acreage and production for this country are very fragmentary, and the data at hand only cover two years, 1865 and 1875. The authority for the statement for these two years is *Statistisk Aarvog for Kongeriget Norge*, 1891.

In the statements of trade the imports are compiled from the annual volume of the report above referred to, while those of exports are taken from *Norges Handel* for each year.

As the statement of acreage and production is so old as to bear but little relation to the figures of imports and exports, which are presented in the complete tables, it has been separated from them and is given in full as follows:

	1865.		1875.	
	<i>Acres.</i>	<i>Bushels.</i>	<i>Acres.</i>	<i>Bushels.</i>
Wheat.....	12, 231	280, 345	11, 208	284, 703
Rye.....	30, 270	672, 488	36, 662	1, 048, 170
Barley.....	123, 303	3, 526, 445	138, 121	4, 421, 554
Oats.....	225, 602	8, 137, 383	223, 942	9, 179, 108
Meslin.....	47, 196	1, 797, 840	51, 076	1, 982, 107
Potatoes.....	78, 331	18, 622, 513	86, 186	20, 213, 743

The importation of wheat is very uniform, averaging 256,534 bushels per annum for ten years past, with practically no exportation. A tendency towards decrease in the importation of maize may be noticed, but the demand for foreign rye increases slowly. Oats is the most important grain crop grown in Norway, and the quality of the product is celebrated throughout the world, but with an acreage of 224,000 acres in 1875, and a production of nearly 10,000,000 bushels, the net export trade amounts to but little more than 300,000 bushels per annum. It is the only arable crop included in the list now under consideration, of which the home production is sufficient to meet the demands for domestic supply. The importation of wool shows a marked increase during the period under consideration, rising from 982,000 pounds in 1881 to 2,522,000 pounds in 1890. During the same period the exports of wool have been very small, with perhaps a tendency toward a decrease. In addition to the importation of wheat, there is a net importation of wheat flour, averaging about 175,000 barrels per annum, equivalent to nearly 800,000 bushels of wheat each year. The shipment of wheat flour was very small and that sent abroad is mainly foreign product reexported. There is also a net importation of rye flour, equivalent to an average of 35,000,000 pounds during the past ten years, or nearly 800,000 bushels of rye, in addition to that imported in the form of grain. There is also an importation of barley flour, but it is not separately stated. That some is imported is shown from the fact that in the statement of exports of that product the larger part each year is made up of foreign produce reexported.

Imports and exports.

WHEAT AND CORN.

Year.	Wheat.				Corn.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1881.....	277,822	\$414,194	.....	.....	138,073	\$130,516	.....	.....
1882.....	328,724	429,202	14	\$27	39,572	37,681	441	\$429
1883.....	231,319	336,447	20	27	95,082	84,045	1,634	1,528
1884.....	315,212	943,871	.....	.....	86,918	72,708	.....	.....
1885.....	279,772	288,931	.....	.....	92,579	66,116	.....	.....
1886.....	221,175	221,984	13	27	44,126	30,016	.....	.....
1887.....	224,563	222,118	.....	.....	10,638	6,512	.....	.....
1888.....	232,630	236,858	14	27	1,234	884	.....	.....
1889.....	193,288	203,841	.....	.....	29,845	20,288	.....	.....
1890.....	260,834	275,048	23	27	33,900	24,200	.....	.....

RYE AND BARLEY.

Year.	Rye.				Barley.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1881.....	5,893,862	\$6,900,759	6,066	\$7,504	2,208,616	\$1,958,062	697	\$751
1882.....	5,339,769	4,997,509	6,840	6,861	1,948,279	1,505,383	10,185	8,120
1883.....	5,732,746	5,028,270	19,958	17,956	2,008,967	1,518,783	2,524	1,903
1884.....	5,631,178	4,695,928	1,986	1,742	1,879,441	1,398,076	319	348
1885.....	6,871,020	5,041,080	2,718	2,090	1,965,218	1,311,780	2,114	1,421
1886.....	5,577,154	3,615,802	13,889	9,460	2,324,273	1,391,804	1,851	1,180
1887.....	5,957,079	3,523,128	2,896	1,822	1,752,202	954,348	6,606	3,966
1888.....	7,573,838	4,506,125	9,406	5,843	2,509,499	1,443,743	5,329	3,216
1889.....	7,124,892	4,719,882	5,303	3,645	2,791,935	1,712,498	16,892	9,648
1890.....	6,253,529	4,509,743	3,966	3,002	2,318,587	1,496,673	10,650	7,424

PEARL BARLEY AND OATMEAL.

Year.	Pearl Barley.				Oatmeal—Imports.	
	Imports.		Exports.		Pounds.	Value.
	Bushels.	Value.	Bushels.	Value.		
1881.....	3,892,927	\$99,374	70,159	\$2,492	864,446	\$24,174
1882.....	2,318,335	56,360	39,145	1,019	1,472,585	35,805
1883.....	1,691,479	45,212	45,756	1,286	913,630	22,217
1884.....	1,233,011	29,989	2,857	80	1,561,562	32,884
1885.....	923,463	21,333	58,179	1,608	509,681	14,874
1886.....	883,317	19,859	56,573	1,474	949,676	21,922
1887.....	593,633	12,274	35,979	751	1,375,472	23,396
1888.....	866,628	18,974	149,240	3,243	1,492,801	27,229
1889.....	1,564,538	34,224	401,665	9,219	2,704,184	52,608
1890.....	1,419,873	31,061	308,556	6,753	1,750,100	36,180

OATS AND POTATOES.

Year.	Oats.				Potatoes.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1881.....	85,074	\$50,143	457,536	\$222,467	73,735	\$20,207	1,322	\$536
1882.....	24,309	12,676	262,181	118,992	77,716	33,044	7,530	3,538
1883.....	13,155	6,244	420,320	187,359	122,537	48,615	4,134	1,635
1884.....	16,134	7,316	338,372	150,830	62,096	23,540	6,526	2,519
1885.....	13,010	5,896	321,009	232,436	50,073	16,562	7,426	2,814
1886.....	26,301	11,336	365,657	133,357	59,971	16,991	8,118	2,680
1887.....	8,935	3,243	311,981	97,090	14,920	4,234	8,059	2,653
1888.....	12,826	4,931	256,349	84,795	37,242	10,539	4,426	1,447
1889.....	102,956	49,017	59,621	25,314	26,985	7,638	17,255	4,877
1890.....	77,299	33,286	156,602	60,916	29,113	8,254	49,531	18,706

Imports and exports—Continued.

TOBACCO AND BARLEY FLOUR.

Year.	Tobacco.				Barley flour—exports.	
	Imports.		Exports.		Pounds.	Value.
	Pounds.	Value.	Pounds.	Value.		
1881.....	4,249,367	\$595,684	177,675	\$26,076	65,856	\$1,688
1882.....	3,777,979	498,078	367,621	51,134	56,644	1,367
1883.....	3,881,683	542,673	194,086	28,488	.....	.....
1884.....	4,227,761	618,222	195,526	30,070	13,916	268
1885.....	4,397,295	641,458	308,741	47,302	.....	.....
1886.....	4,061,821	543,156	314,094	44,113	.....	.....
1887.....	3,695,240	471,734	361,129	48,401	196	.....
1888.....	3,398,391	433,785	166,890	22,378	347,312	5,762
1889.....	4,065,282	494,192	339,819	43,362	220,108	3,833
1890.....	3,795,351	461,389	425,212	54,270	1,208,340	21,386

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....	7,740,769	\$1,599,692	3,344,839	\$650,865	518,456	\$81,606	167,636	\$20,395
1882.....	7,318,082	1,498,227	2,319,901	409,049	672,094	92,326	151,257	18,466
1883.....	7,029,257	1,367,202	2,882,371	473,234	621,940	81,606	203,235	24,710
1884.....	7,643,150	1,347,236	4,402,926	696,264	647,756	86,618	360,415	43,818
1885.....	8,352,878	1,320,007	3,710,979	543,798	624,210	75,871	242,455	23,584
1886.....	7,220,660	1,097,219	4,309,704	646,416	480,779	58,451	237,250	20,234
1887.....	7,140,325	1,128,414	3,645,555	538,573	497,005	66,464	269,248	22,995
1888.....	6,643,738	1,038,339	2,656,056	390,101	545,556	72,950	185,709	15,839
1889.....	6,178,303	989,268	3,610,405	495,881	713,100	99,696	141,500	12,998
1890.....	6,280,663	1,015,586	3,610,837	495,505	876,902	127,916	178,119	17,015

WOOL AND COTTON.

Year.	Wool.				Cotton.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....	982,304	\$313,748	122,293	\$38,700	4,838,149	\$646,952	5,606	\$777
1882.....	914,689	296,649	29,564	9,353	5,364,916	684,794	4,515	616
1883.....	855,006	307,852	35,957	11,363	5,137,005	599,489	615	80
1884.....	1,002,123	304,555	27,888	8,469	5,115,598	621,867	.....	.....
1885.....	1,035,875	251,840	76,717	18,760	4,433,715	517,428	66,239	8,120
1886.....	1,133,782	303,215	31,149	8,013	5,134,932	561,808	11,358	1,313
1887.....	1,274,920	356,467	42,249	10,613	5,193,023	587,108	38,843	4,610
1888.....	1,918,465	559,718	47,889	13,507	4,870,821	562,505	5,472	670
1889.....	2,531,454	769,348	44,114	10,773	5,350,851	630,952	27,297	3,377
1890.....	2,522,790	766,694	39,200	9,803	5,944,572	700,981	3,364	429

WHEAT FLOUR AND RYE FLOUR.

Year.	Wheat flour.				Rye flour.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....	20,274,240	\$714,756	195,804	\$7,209	24,521,364	\$633,177	1,564,668	\$44,783
1882.....	22,520,988	684,445	926,492	31,168	40,650,204	962,442	1,945,300	50,062
1883.....	27,856,480	812,764	233,044	7,156	51,522,716	1,140,420	1,472,548	35,000
1884.....	33,942,300	866,498	313,208	8,388	43,329,328	865,774	2,246,160	46,739
1885.....	34,362,132	793,682	358,288	8,710	39,004,196	688,036	2,847,096	53,895
1886.....	39,921,476	922,081	1,413,552	34,223	39,829,552	635,106	8,864,296	154,609
1887.....	38,925,600	880,139	647,388	15,356	54,228,496	731,131	6,249,460	99,107
1888.....	41,934,004	983,828	690,704	17,018	54,899,600	762,648	4,477,424	75,200
1889.....	43,219,960	982,515	238,728	5,682	54,244,176	846,264	2,057,020	35,161
1890.....	48,239,520	1,149,398	217,756	5,441	54,800,424	925,190	1,884,932	35,725

SWEDEN.

The figures of acreage and production for this country are taken from the official publication, *Jordbruk och Boskapsskötsel*, for each year. The trade statements are compiled from the official record of commerce, *Utrikes Handel och Sjöfart*.

The acreage of the different cereals is not given separately, but is thrown together and classified simply as winter and spring grains. The winter grains consist of winter wheat and winter rye. Spring grains consist of barley and oats, together with small quantities of spring wheat and spring rye. It will be noticed that the total acreage devoted to the cereal crops, as thus presented, shows a regular and somewhat uniform increase each year. The preference of the population of Sweden in the matter of bread grain is shown by the fact that with a crop of wheat averaging only 3,600,000 bushels per annum there is a net importation of less than 2,000,000 bushels per annum, giving a net supply of wheat of only 5,600,000 bushels each year.

In the matter of rye, however, there is an annual production of nearly 20,000,000 bushels, which is supplemented by a net importation of more than 5,000,000 bushels each year. The most important cereal grown is oats, and the figures presented show a considerable increase in production during the period under consideration. The average crop is about 53,000,000 bushels, and from this there is a net exportation of more than 13,000,000 bushels. In this trade, however, it is to be noted that the heaviest exportation is in the early years of the decade, the trade falling off materially toward the close. Maize is not produced, and the limited demand for it is met with an importation averaging less than 4,000,000 bushels each year. The acreage of potatoes shows surprisingly little variation from year to year, averaging for the period 383,226 acres. In the production there is, of course, more variation, the average being 48,640,330 bushels. This crop, however, is not sufficient to meet the demands for consumption, and there is a dependence upon foreign sources for an average of about 200,000 bushels each year.

The production of tobacco appears to be increasing, and there was a sudden and very large increase between 1884 and 1885. In 1884 the crop is given 346,122 pounds, and in 1885, 2,238,110 pounds, with no adequate explanation for the advance. Since 1885 the figure reached has been more than maintained.

In the trade in dairy products, Sweden appears as an exporting country in the case of butter, but with the balance of the trade slightly in favor of importation in the case of cheese. In the butter table which is presented, the figures from 1881 to 1884, inclusive, include oleomargarine and other imitations. From 1885 to 1890 these items have been excluded, and only butter is shown. It is interesting to note that during the past six years, while the imports of butter have averaged a little more than 5,000,000 pounds, the imports of oleomargarine have amounted

to almost 1,300,000 pounds. From the official record is to be gathered that the imitation butters imported are for domestic consumption, as there appears only an average of 12,936 pounds exported each year. This is about 10 per cent of the imports. The average net exportation of butter during the period, 1885 to 1890, is almost 25,000,000 pounds per annum. The foreign trade in cheese is not large and is apparently declining. The wool trade is confined almost entirely to imports, and shows a gradual increase during the period. The net importation averages 4,300,000 pounds per annum.

In addition to the net importation of all cereals except oats, already noted, there is a large importation of flour each year. The statement given includes flour of wheat, rye, barley, oats, millet, and pease, it being impossible to separate the items. The average net importation is nearly 100,000,000 pounds per annum, but during the latter years of the period the trade both in imports and exports is much smaller than during the period 1883 to 1887, inclusive.

Acree of cereals.

Year.	Winter grains.	Spring grains.	Year.	Winter grains.	Spring grains.
	<i>Acres.</i>	<i>Acres.</i>		<i>Acres.</i>	<i>Acres.</i>
1881	1,090,403	2,455,892	1886	1,078,769	2,646,752
1882	1,099,338	2,490,721	1887	1,088,589	2,741,906
1883	1,097,445	2,502,098	1888	1,096,264	2,767,888
1884	1,099,672	2,542,864	1889	1,105,404	2,794,407
1885	1,072,955	2,633,525	1890	1,113,588	2,810,864

Production, imports, and exports.

WHEAT.

Year.	Production (bushels).	Imports.		Exports.	
		Bushels.	Value.	Bushels.	Value.
1881	2,480,434	1,548,502	\$2,642,341	11,578	\$19,757
1882	3,542,966	1,539,072	2,930,342	11,071	21,079
1883	3,040,987	1,845,389	2,403,141	47,119	59,244
1884	3,745,055	1,739,633	1,734,219	22,888	22,817
1885	3,974,773	1,743,657	1,780,514	63,141	69,081
1886	3,867,487	1,206,362	1,026,551	130,068	110,682
1887	4,370,485	1,883,227	1,311,575	64,152	60,829
1888	3,853,736	1,777,187	1,879,565	719	761
1889	3,809,037	1,993,029	1,865,076	1,134	1,268
1890	4,048,962	2,104,810	2,026,484	615	704

RYE.

1881	16,371,109	4,859,801	\$4,299,914	10,996	\$9,726
1882	18,924,642	5,312,635	4,453,179	13,006	10,902
1883	17,623,867	6,771,246	5,549,693	45,091	36,956
1884	20,114,087	6,106,714	4,663,791	109,863	83,904
1885	20,994,773	7,454,357	5,582,078	41,655	36,864
1886	19,751,040	5,157,161	3,247,473	33,627	21,175
1887	21,528,978	6,067,566	3,442,122	67,160	38,099
1888	19,982,115	5,133,909	3,407,577	10,262	6,811
1889	20,407,357	5,198,688	3,302,098	4,833	3,948
1890	21,574,809	4,627,191	3,257,099	3,781	3,305

Production, imports, and exports—Continued.

BARLEY.

Year.	Production (bushels).	Imports.		Exports.	
		Bushels.	Value.	Bushels.	Value.
1881	14,059,049	590,375	\$631,207	946,285	\$1,011,734
1882	16,230,707	365,185	249,883	1,858,668	1,271,821
1883	14,321,172	618,198	423,011	1,395,662	955,002
1884	15,013,258	686,661	440,492	1,057,298	678,254
1885	12,549,275	759,152	442,971	691,128	483,934
1886	13,830,117	185,356	113,564	1,629,255	998,216
1887	14,559,956	231,536	111,460	1,712,671	824,469
1888	13,269,750	51,788	28,194	1,153,626	628,049
1889	12,838,334	40,837	20,850	184,463	121,090
1890	14,736,051	160,389	102,292	185,729	145,547

OATS.

1881	48,430,490	200,117	\$87,067	14,123,913	\$6,145,007
1882	54,373,963	68,183	27,215	17,306,038	6,907,780
1883	49,238,320	62,476	29,925	18,664,757	7,110,393
1884	53,348,127	256,953	125,151	12,121,975	4,741,768
1885	51,999,920	161,505	69,109	16,074,558	6,253,078
1886	53,749,903	152,344	56,299	16,886,501	6,240,483
1887	55,398,144	254,297	77,160	17,062,688	5,177,225
1888	60,438,500	326,143	111,012	11,396,376	3,879,088
1889	44,575,510	234,940	68,545	7,878,913	2,605,195
1890	63,421,865	302,095	117,986	4,694,113	2,015,940

CORN AND MASLIN.

Year.	Corn.		Production (bushels).	Maslin.		Exports.	
	Imports.			Imports.	Exports.	Bushels.	Value.
	Bushels.	Value.					
1881	73,648	\$62,670	5,395,515			544	\$255
1882	59,639	50,026	6,155,060			401	188
1883	228,699	202,395	5,641,154			115	54
1884	451,610	399,669	6,695,691				
1885	1,103,093	788,488	6,710,123	8	\$5	98	57
1886	441,516	285,538	7,095,379	21	13		
1887	179,695	122,329	7,308,154	1	1		
1888	6,787	5,313	7,282,441				
1889	367,540	231,441	5,672,080				
1890	646,728	462,279	8,195,489				

POTATOES.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1881	382,951	50,701,250	27,751	\$5,766	57,119	\$11,869
1882	382,768	39,042,201	64,355	13,372	17,848	3,709
1883	381,752	45,299,246	196,610	40,853	15,777	3,278
1884	387,099	46,713,640	693,173	144,033	16,741	3,479
1885	373,020	49,637,006	406,741	76,833	9,775	1,847
1886	391,742	52,077,259	130,618	38,383	5,828	1,101
1887	384,302	60,676,487	113,452	24,110	4,940	933
1888	380,401	42,091,952	63,127	21,649	11,878	2,767
1889	383,195	64,793,606	107,302	39,132	4,249	1,559
1890	385,029	35,370,649	307,314	112,075	1,194	436

Production, imports, and exports—Continued.

TOBACCO AND CHEESE.

Year.	Tobacco.				Cheese.			
	Production (pounds).	Imports.		Imports.		Exports.		
		Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	
1881.....	358,688	5,895,473	\$981,848	1,169,214	\$103,758	252,383	\$36,817	
1882.....	259,261	7,202,053	1,330,776	1,806,941	204,283	242,832	44,279	
1883.....	341,052	7,771,607	1,436,017	878,692	92,931	460,772	64,976	
1884.....	346,122	7,673,423	2,332,030	989,056	104,603	337,196	49,189	
1885.....	2,238,110	7,595,405	2,308,320	1,180,036	111,891	155,711	18,929	
1886.....	2,005,525	7,404,125	2,250,188	811,560	81,885	203,835	24,779	
1887.....	2,051,380	7,409,837	2,251,924	492,501	67,654	741,365	72,099	
1888.....	2,096,575	7,710,271	2,343,229	473,707	57,586	517,653	50,342	
1889.....	2,363,552	7,587,309	2,305,859	478,068	58,116	261,609	27,032	
1890.....	2,953,723	7,594,056	2,307,910	429,976	52,270	317,096	32,765	

BUTTER AND OLEOMARGARINE.

Year.	Butter.				Oleomargarine.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....	4,858,707	\$945,030	11,258,196	\$2,737,183				
1882.....	5,248,685	893,272	12,836,506	3,120,914				
1883.....	6,451,954	1,098,055	17,996,908	4,375,552				
1884.....	7,143,934	1,302,668	21,081,421	4,612,936				
1885.....	6,271,203	991,058	25,234,268	5,521,642	1,793,709	\$202,787	14,698	\$2,680
1886.....	6,288,084	917,285	26,595,170	5,496,126	1,167,882	150,491	4,824	880
1887.....	6,434,930	938,707	30,194,826	6,496,969	1,154,459	126,307	10,243	1,868
1888.....	5,227,885	762,627	33,004,449	7,333,239	1,038,790	88,396	41,383	7,516
1889.....	3,765,843	595,128	32,415,779	7,290,095	1,311,854	119,606	5,633	1,027
1890.....	3,894,324	639,103	33,164,539	7,458,486	1,316,638	128,045	836	152

WOOL AND COTTON.

Year.	Wool.				Cotton—imports.	
	Imports.		Exports.		Pounds.	Value.
	Pounds.	Value.	Pounds.	Value.		
1881.....	3,572,173	\$1,302,743	32,450	\$11,834	23,044,510	\$3,081,521
1882.....	3,454,044	1,259,662	54,187	19,762	22,994,670	3,270,529
1883.....	4,052,191	1,477,802	65,459	23,872	28,041,718	3,408,864
1884.....	4,643,287	1,693,370	87,132	31,776	21,955,113	2,802,399
1885.....	4,544,657	1,519,284	59,297	21,625	24,998,753	3,038,948
1886.....	3,979,340	1,523,795	56,925	20,760	23,288,175	2,831,004
1887.....	4,262,358	1,632,170	54,057	19,714	23,934,606	3,057,598
1888.....	4,578,019	1,753,046	54,985	20,053	26,795,211	3,485,346
1889.....	5,712,952	2,187,641	43,285	15,786	26,852,883	3,819,282
1890.....	5,170,464	1,979,908	83,495	30,450	28,463,882	4,083,016

FLOUR AND GRITS.

Year.	Flour.				Grits.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....	66,024,659	\$1,957,077	1,538,683	\$50,373	279,989	\$5,558	257,469	\$6,087
1882.....	83,909,724	2,375,774	14,384,903	441,148	128,683	2,890	353,492	8,204
1883.....	126,660,458	3,155,497	19,267,216	530,343	121,156	3,024	368,036	8,664
1884.....	134,681,730	3,104,115	25,546,545	584,477	127,979	3,343	414,187	9,708
1885.....	161,997,141	3,363,934	24,143,082	624,040	194,000	4,686	473,345	8,184
1886.....	165,520,585	3,155,956	16,490,611	465,279	288,626	6,757	544,750	9,343
1887.....	162,538,518	2,828,492	15,632,572	324,295	198,319	4,746	629,907	10,849
1888.....	85,000,611	1,741,531	5,969,589	145,449	198,352	5,269	792,448	13,824
1889.....	82,073,294	1,498,504	5,814,569	160,614	422,389	12,464	685,699	11,751
1890.....	64,223,730	1,237,077	6,296,911	177,627	642,010	19,112	473,698	8,089

NETHERLANDS.

The estimates of acreage and production for this country are taken from the official publication *Jaarcijfers over 1890 en vorige Jaren*, No. 10. The trade figures are compiled from *Statistiek van den In-, Uit-, en Doorvoer*.

It should be noted that the value of the imports and exports each year is arbitrarily fixed by the customs service at a given amount per unit of measurement, and does not represent the value set upon imports or exports by owners. As a rule, throughout the whole period presented the same basis of value is used. As an example of this, an examination of the statement for potatoes will show that the value is placed at one florin per 100 kilograms for each year during the whole period.

The acreage of wheat is practically stationary during the period, 1880 to 1887, averaging 216,288 acres. During the same period the production has averaged 5,747,942 bushels. The net importation during the period 1881 to 1890 has been about 9,000,000 bushels per annum, making the annual supply available for consumption less than 15,000,000 bushels. The item of maize appears in the statement of trade only for the year 1890, in the imports, amounting to 7,662,043 bushels, valued at \$5,448,857, and in the exports 1,062,319 bushels, valued at \$755,467. The net supply of rye averages something more than 18,000,000 bushels per annum, in addition to what may be imported in the form of flour. The production of oats amounts to more than 12,000,000 bushels per annum, and this is the only cereal crop in which the production is larger than the demands for consumption. The balance of trade in favor of exports amounts to more than 1,000,000 bushels per annum, but is less during the later than in the earlier years of the decade. The area devoted to tobacco culture is practically stationary, averaging but little over 3,000 acres each year. In addition to a production of more than 6,000,000 pounds per annum, there is a net importation of about 29,000,000 pounds per annum. It should be understood in any comparisons of production and trade statistics of this crop, either in Netherlands or in any other country presented in this report, that it has been the aim to confine the trade statements to imports and exports of unmanufactured tobacco. A country, therefore, may appear as having a very large domestic consumption of tobacco leaf, when in fact a considerable portion of the net importation is afterwards exported in the form of manufactured product. Netherlands is known as one of the most prominent countries of the world in dairy farming, and the statements presented below substantiate this reputation. The average net exportation of butter for a period of ten years is about 115,000,000 pounds per annum, while of cheese during the same period there is a net exportation of nearly 64,000,000 pounds per annum. The balance in the wool trade is upon the side of imports, but the net importation

is small, averaging but little over 3,000,000 pounds per annum. The statement of the flour trade includes the product of different cereals, it not being practical to give a statement of flour of wheat separately.

Production, imports, and exports.

WHEAT.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	228, 775	5, 910, 910	16, 738, 683	\$22, 892, 654	6, 774, 592	\$9, 635, 494
1881.....	219, 289	4, 708, 922	14, 712, 313	20, 843, 523	7, 906, 140	11, 244, 894
1882.....	229, 583	5, 430, 881	16, 520, 033	23, 404, 593	9, 782, 582	13, 913, 755
1883.....	214, 127	5, 630, 797	20, 527, 562	29, 082, 220	11, 095, 962	15, 781, 774
1884.....	219, 281	5, 892, 248	21, 151, 241	29, 965, 812	13, 234, 550	18, 823, 484
1885.....	209, 449	6, 325, 545	19, 484, 199	27, 604, 046	9, 448, 944	13, 439, 222
1886.....	199, 284	5, 194, 702	20, 653, 019	29, 259, 960	11, 772, 120	16, 743, 472
1887.....	210, 514	6, 889, 532	21, 376, 286	30, 284, 642	11, 984, 188	17, 045, 095
1888.....	.....	.....	19, 273, 407	27, 305, 408	10, 314, 403	14, 670, 163
1889.....	.....	.....	19, 704, 885	27, 916, 701	10, 051, 144	14, 295, 730
1890.....	.....	.....	19, 956, 388	28, 383, 947	11, 852, 906	16, 858, 374

RYE.

1880.....	487, 593	9, 350, 539	9, 356, 940	\$8, 560, 188	5, 863, 001	\$5, 388, 238
1881.....	485, 532	8, 530, 456	7, 889, 890	7, 451, 950	3, 479, 634	3, 197, 867
1882.....	499, 913	11, 194, 176	11, 044, 625	10, 431, 576	4, 961, 145	4, 559, 410
1883.....	492, 960	10, 868, 652	13, 943, 807	13, 169, 834	6, 536, 531	6, 007, 228
1884.....	498, 532	10, 590, 773	12, 490, 476	11, 797, 172	6, 682, 571	6, 141, 442
1885.....	503, 778	11, 569, 963	13, 713, 050	12, 951, 885	5, 656, 766	5, 198, 703
1886.....	503, 434	10, 694, 921	15, 135, 577	14, 295, 452	7, 015, 001	6, 446, 953
1887.....	504, 128	13, 488, 394	16, 977, 373	16, 035, 015	8, 331, 872	7, 567, 190
1888.....	.....	.....	24, 127, 657	22, 788, 413	12, 172, 107	11, 186, 457
1889.....	.....	.....	20, 840, 249	19, 683, 477	11, 154, 775	10, 251, 504
1890.....	.....	.....	16, 936, 846	15, 013, 952	9, 999, 635	9, 189, 903

BARLEY—WINTER AND SPRING.

1880.....	117, 350	4, 983, 377	4, 708, 031	\$3, 557, 368	1, 480, 262	\$1, 036, 492
1881.....	115, 727	4, 368, 462	5, 041, 877	3, 809, 616	1, 995, 779	1, 397, 461
1882.....	114, 345	4, 667, 526	5, 514, 250	4, 166, 538	1, 986, 059	1, 390, 655
1883.....	119, 972	5, 104, 169	5, 836, 065	4, 409, 699	1, 591, 605	1, 114, 455
1884.....	116, 416	4, 884, 490	6, 136, 548	4, 636, 743	2, 884, 920	2, 020, 046
1885.....	122, 562	5, 468, 765	6, 581, 530	4, 972, 969	3, 158, 210	2, 211, 406
1886.....	110, 135	4, 707, 991	6, 469, 616	4, 888, 408	3, 283, 024	2, 298, 802
1887.....	111, 385	5, 239, 089	7, 952, 775	6, 009, 075	5, 226, 177	3, 659, 414
1888.....	.....	.....	9, 599, 736	7, 253, 510	5, 078, 907	3, 556, 295
1889.....	.....	.....	9, 312, 204	7, 036, 252	6, 147, 490	4, 304, 525
1890.....	.....	.....	10, 670, 188	7, 471, 358	6, 158, 126	4, 311, 973

OATS.

1880.....	290, 973	13, 532, 259	1, 919, 796	\$997, 279	2, 614, 274	\$1, 220, 358
1881.....	293, 602	10, 620, 192	4, 310, 321	2, 239, 089	5, 299, 861	2, 474, 006
1882.....	287, 484	12, 874, 807	4, 725, 800	2, 440, 177	6, 940, 658	3, 239, 939
1883.....	295, 223	11, 458, 549	5, 975, 511	3, 104, 107	7, 078, 451	3, 304, 262
1884.....	278, 249	11, 279, 040	5, 875, 013	3, 051, 901	7, 520, 330	3, 510, 533
1885.....	283, 065	13, 067, 002	3, 941, 875	2, 047, 691	5, 846, 184	2, 729, 032
1886.....	300, 380	14, 659, 617	2, 198, 277	1, 141, 942	4, 711, 688	2, 199, 443
1887.....	285, 272	12, 120, 597	7, 131, 943	3, 704, 840	9, 551, 500	4, 458, 696
1888.....	.....	.....	11, 157, 921	5, 796, 220	11, 931, 737	5, 569, 804
1889.....	.....	.....	6, 954, 741	3, 612, 789	7, 891, 326	3, 683, 717
1890.....	.....	.....	10, 604, 805	4, 950, 384	9, 596, 496	4, 479, 700

Production, imports, and exports—Continued.

POTATOES.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	347,415	39,495,455	3,651,299	\$399,480	1,243,332	\$136,030
1881.....	317,924	33,924,562	5,857,721	640,879	640,475	70,729
1882.....	347,583	46,699,022	2,619,479	286,591	808,587	88,466
1883.....	351,922	70,316,808	2,498,115	273,313	728,406	79,693
1884.....	357,186	74,649,750	147,918	16,183	1,055,460	115,475
1885.....	349,718	67,868,463	207,512	22,703	1,473,475	161,209
1886.....	353,249	64,091,645	568,407	62,188	1,107,381	121,156
1887.....	364,191	76,532,023	645,397	70,611	1,343,877	147,030
1888.....	.....	.....	2,503,039	273,851	2,615,858	286,195
1889.....	.....	.....	1,867,034	204,268	1,446,526	158,261
1890.....	.....	.....	1,364,544	149,291	2,286,937	250,208

TOBACCO.

Year.	Production.		Imports.		Exports.	
	Acres.	Pounds.	Pounds.	Value.	Pounds.	Value.
1880.....	3,632	6,935,231	31,205,531	\$2,845,102	5,626,609	\$512,995
1881.....	3,328	6,904,311	29,381,851	2,678,831	5,278,644	481,270
1882.....	3,086	4,474,511	29,711,546	2,708,891	5,985,646	545,723
1883.....	3,084	6,878,352	34,733,001	3,166,707	4,208,469	383,697
1884.....	3,143	6,589,990	46,677,813	4,255,757	4,029,266	367,360
1885.....	3,220	5,960,632	29,274,403	2,669,035	5,685,935	518,403
1886.....	3,239	6,329,605	30,236,530	2,756,755	3,372,518	307,483
1887.....	3,264	6,130,342	33,962,033	3,096,421	4,440,477	404,847
1888.....	.....	.....	34,216,474	3,119,618	4,498,372	410,130
1889.....	.....	.....	35,035,098	3,194,255	4,568,815	416,553
1890.....	.....	.....	32,858,613	2,996,221	3,917,715	357,191

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880....	2,772,077	\$403,932	79,531,479	\$11,599,906	635,987	\$33,651	61,857,233	\$3,947,796
1881....	1,782,368	259,854	90,684,510	13,227,962	579,658	32,252	56,102,268	3,580,509
1882....	2,343,058	341,507	106,572,454	15,546,443	583,844	31,153	57,313,134	3,657,787
1883....	2,290,604	333,914	83,195,746	12,135,861	748,202	42,565	51,990,129	3,318,067
1884....	3,441,932	502,042	126,609,358	18,469,127	671,495	32,922	64,803,542	4,135,832
1885....	13,622,543	1,987,241	140,005,716	20,423,525	638,465	30,443	75,909,025	4,844,597
1886....	11,797,015	1,720,910	156,455,131	22,821,371	640,474	33,819	65,938,311	4,208,256
1887....	13,969,391	2,037,810	171,935,874	25,080,241	695,549	38,327	67,317,031	4,296,246
1888....	10,159,401	1,482,011	131,773,607	19,222,713	696,744	39,390	66,548,783	4,243,598
1889....	9,137,798	1,332,992	131,330,167	19,157,542	612,993	35,207	70,590,734	4,503,173
1890....	8,834,868	1,288,802	87,203,279	12,720,935	655,110	37,505	66,832,431	4,265,319

WOOL AND COTTON.

Year.	Wool.				Cotton.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880....	14,471,947	\$3,408,442	15,560,045	\$3,546,552	102,180,141	\$11,179,284	72,375,678	\$7,918,449
1881....	19,070,074	4,351,420	16,842,170	4,051,500	86,947,003	9,512,663	64,540,377	7,061,209
1882....	20,511,517	4,671,125	16,752,894	3,773,984	90,473,289	9,898,465	70,172,475	7,677,402
1883....	30,162,103	6,727,036	26,654,707	5,897,991	102,899,564	11,257,994	63,707,880	6,970,126
1884....	38,536,609	8,511,432	35,671,047	8,190,089	95,162,112	10,411,458	65,403,125	7,155,599
1885....	33,763,877	7,491,485	29,424,847	6,704,286	86,758,484	9,492,037	49,937,552	5,463,543
1886....	39,684,914	8,848,995	38,657,736	8,955,607	60,538,051	6,673,323	40,372,820	4,417,094
1887....	38,749,610	8,577,034	31,493,551	7,124,750	84,527,752	9,247,979	57,990,510	6,345,587
1888....	37,427,774	8,284,966	35,024,379	8,834,074	74,405,636	8,140,542	53,305,796	6,050,875
1889....	39,206,869	8,756,718	35,802,078	8,749,697	67,043,352	7,335,052	49,309,215	5,394,803
1890....	40,223,103	8,992,333	35,494,668	8,100,306	62,751,651	6,865,508	36,037,128	3,942,736

Production, imports, and exports—Continued.

FLOUR AND SPELT.

Year.	Flour.				Spelt—production.	
	Imports.		Exports.		Acres.	Bushels.
	Pounds.	Value.	Pounds.	Value.		
1880.....	70,453,875	\$3,854,095	15,754,270	\$861,818	699	28,375
1881.....	68,993,971	3,774,232	23,159,526	1,206,914	892	17,025
1882.....	44,374,528	2,427,455	11,413,507	624,362	672	25,538
1883.....	68,811,459	3,764,248	9,957,691	544,723	316	14,188
1884.....	72,990,556	3,992,861	8,568,694	468,740	660	28,375
1885.....	60,918,812	3,332,491	16,083,304	879,818	724	36,888
1886.....	112,683,497	6,164,216	33,603,638	1,838,247	729	34,050
1887.....	143,243,477	7,835,963	37,612,844	2,057,565	551	28,375
1888.....	141,592,582	7,745,652	38,711,184	2,117,649	.....	.....
1889.....	136,937,289	7,490,990	50,406,722	2,757,439	.....	.....
1890.....	195,392,900	10,688,734	48,639,415	2,781,361	.....	.....

PORTUGAL.

Official estimates of production of the various crops of Portugal do not appear to be regularly made, and the only years for which such estimates are at hand are for 1882, 1883, and 1884. These estimates are taken from the *Annuario* for 1885. The returns of trade are from the annual report *Estatistica de Portugal, Commercio do Continente do Reino e Ilhas Adjacentes com Paizes Estrangeiros*.

In the statement of exports for most of the products which are given the figures for the years 1883, 1884, and 1885 are somewhat deficient, from the fact that the amount of foreign merchandise, re-exported in those years, is not available. In most of the products this is a very small item, and in none of them will it seriously affect the average for the period presented.

A late estimate of production of the principal crops, presumably made up from official data, is presented by M. Louis Grandeau in his report of the International Jury of the Paris Exposition. This statement is given as a general average of area and production, and is reproduced here because it undoubtedly represents more nearly the capacity of Portugal at the present time than do the figures which are presented from the official estimates.

The statement is:

	Acres.	Bushels.
Wheat.....	649,460	8,512,500
Maize.....	1,284,920	20,225,700
Rye.....	667,170	6,639,750
Barley.....	143,318	1,986,250
Oats.....	29,652	425,625
Rice.....	17,297	595,875
Potatoes.....	74,130	8,211,725

It will be noticed that there is a substantial increase in the figures of production between the table given above and the official state-

ments which are hereafter presented in the case of wheat, corn, and rye, but barley and oats show a considerable decline in production.

The trade records show a comparatively stationary importation of wheat, averaging for the last ten years presented 3,667,375 bushels. The exportation is so small as to be insignificant. With a production of possibly 20,000,000 bushels per annum of corn, there is necessity only for importation of something less than a million bushels each year. The imports of tobacco show a comparatively steady increase from year to year, amounting to nearly 50 per cent between 1881 and 1890. The exports as given cover a period of seven years, and are almost entirely made up of reexports of imported tobacco.

In dairy products Portugal appears as an importing country, the net importation of both butter and cheese being large. The trade in butter varies but little throughout the period presented. The official reports state that, beginning with 1885, the figures presented include not only butter, but all imitations of butter. As such imitations are not elsewhere stated, it is perhaps fair to assume that the figures prior to that year also include these substitutes. Considerable fluctuation appears in the imports of wool, but there is each year a very substantial balance in the wool trade in favor of importation. The figures presented include in imports both wool in the grease and washed wool, and the exports in addition include wool waste.

Production, imports, and exports.

WHEAT.

Year.	Production (bushels).	Imports.		Exports.	
		Bushels.	Value.	Bushels.	Value.
1880		2,606,232	\$3,685,961	80,228	\$81,828
1881		3,007,995	4,806,657	5,463	7,065
1882	6,344,429	3,942,953	6,014,583	18,051	24,494
1883	6,134,071	3,153,291	3,995,784	2,039	3,348
1884	6,194,705	3,812,521	4,188,456	1,947	2,484
1885		3,657,582	3,759,596	426	540
1886		4,439,606	4,535,166	954	676
1887		4,607,321	4,678,088	3,782	5,658
1888		3,769,698	3,813,922	1,482	1,471
1889		2,803,674	3,099,055	456	477
1890		3,479,109	3,720,489	634	624

BARLEY AND OATS.

Year.	Barley.			Oats.		
	Production (bushels).	Imports.		Production (bushels).	Imports.	
		Bushels.	Value.		Bushels.	Value.
1880		113,631	\$94,175			
1881		224,478	189,804		1,444	\$665
1882	2,239,727	182,452	146,385	833,870	5,621	2,495
1883	2,174,044	98,431	76,140	1,128,860	12,399	5,908
1884	1,939,309	58,352	34,884	1,017,811		
1885		153,089	84,258			
1886		172,278	91,083		6,214	2,236
1887		71,704	44,481			
1888		15,975	6,650			
1889		15	11			
1890		33,275	17,455			

Production, imports, and exports—Continued.

CORN AND RYE.

Year.	Corn.				Rye.			
	Production (bushels).	Imports.		Exports.		Production (bushels).	Imports.	
		Bushels.	Value.	Bushels.	Value.		Bushels.	Value.
1880.....		1,798,790	\$1,461,224	3,987	\$2,738		122,102	\$140,005
1881.....		799,869	694,740	2,864	2,494		27,245	24,375
1882.....	13,378,898	838,470	766,177	7,947	6,559	4,881,161	127,071	12,290
1883.....	15,216,614	1,107,528	845,208	2,126	1,620	4,832,813		
1884.....	14,750,905	1,643,136	1,167,264		661	4,814,857		
1885.....		692,370	449,774		839			
1886.....		619,702	355,600	24,968	15,241		5,777	5,446
1887.....		707,598	396,025		824		28,415	18,235
1888.....		495,548	326,026	446	409		1,812	1,674
1889.....		276,441	151,378				17,284	15,731
1890.....		645,317	378,735	1,416	1,209		26,903	18,109

OTHER CEREALS AND POTATOES.

Year.	Cereals, except wheat and corn.		Potatoes.			
	Imports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1880.....	43,583	\$908	44,479	\$28,990	301,019	\$190,791
1881.....	1,127,340	15,031	72,324	38,623	95,933	56,448
1882.....	2,472,459	37,109	115,728	59,790	210,443	124,588
1883.....			80,563	37,044	174,898	108,648
1884.....			87,210	34,236	152,698	114,912
1885.....			70,383	22,735	164,057	113,400
1886.....	84,419	2,089	78,124	24,875	200,567	113,908
1887.....	163,760	2,559	120,080	35,392	241,071	179,809
1888.....	203,456	2,969	118,252	48,575	302,989	221,857
1889.....			155,398	65,123	351,016	216,100
1890.....	102,047	1,481	157,864	71,843	298,786	202,499

TOBACCO.

Year.	Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.
1880.....	1,684,052	\$226,842	226,626	\$34,159
1881.....	3,120,955	371,477	206,564	25,445
1882.....	3,792,205	422,708	232,632	35,149
1883.....	3,744,293	457,812		
1884.....	3,583,577	551,124		
1885.....	3,982,991	482,840		
1886.....	3,782,624	540,163	163,345	23,851
1887.....	4,655,474	732,971	165,248	26,152
1888.....	5,270,160	755,201	59,669	9,843
1889.....	4,855,997	627,686		
1890.....	4,556,467	428,153	182,153	26,071

Production, imports, and exports—Continued.

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	2,907,380	\$984,915	170,570	\$31,410	796,531	\$119,632	104,570	\$19,402
1881.....	2,724,154	638,807	77,637	14,426	792,170	123,292	88,484	12,255
1882.....	2,604,470	557,261	78,772	14,757	827,300	127,476	75,982	10,600
1883.....	2,393,314	605,448	.....	.....	819,670	125,496	.....	.....
1884.....	2,482,821	542,376	.....	.....	810,631	123,444	.....	.....
1885.....	2,656,159	547,116	.....	.....	911,093	130,734	41,859	4,667
1886.....	2,855,382	551,569	87,796	16,774	1,020,575	145,045	101,610	12,757
1887.....	2,820,365	599,840	112,757	19,616	951,924	136,917	94,630	12,175
1888.....	2,419,862	501,102	116,674	20,102	944,556	134,704	123,074	13,837
1889.....	2,583,286	514,039	.....	.....	886,280	127,214	73,087	8,928
1890.....	2,536,527	514,134	167,210	31,687	862,814	130,138	124,932	14,820

WOOL AND COTTON.

Year.	Wool.				Cotton.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	5,144,333	\$658,447	2,671,245	\$411,727	7,461,464	\$931,488	14,974	\$1,827
1881.....	6,369,810	840,119	1,341,918	214,918	7,297,466	899,736	9,636	1,191
1882.....	5,394,793	670,643	1,690,966	238,344	7,286,549	870,547	858	82
1883.....	6,047,659	741,096	1,763,460	219,564	8,813,329	979,776	.....	.....
1884.....	6,338,856	818,424	1,282,636	144,504	8,253,581	891,432	.....	.....
1885.....	5,192,741	805,136	1,512,173	161,222	9,169,899	962,754	.....	.....
1886.....	11,324,752	1,454,553	1,587,413	167,591	11,287,601	1,129,283	.....	.....
1887.....	8,643,791	977,761	1,860,775	201,458	11,092,817	1,093,261	64,222	4,792
1888.....	9,733,798	997,366	2,069,217	216,509	12,018,705	1,208,328	133,321	3,344
1889.....	8,961,117	1,030,277	2,107,942	219,020	13,205,047	1,274,435	.....	.....
1890.....	8,916,932	1,318,377	1,664,193	157,237	18,147,405	2,042,982	93,272	10,115

FLOUR.

Year.	Wheat flour.				All flour except wheat.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	1,986,331	\$67,922	936,613	\$35,393	43,786	\$1,055	1,252	\$75
1881.....	5,859,421	176,561	881,961	38,051	10,174	218	511	22
1882.....	6,902,406	148,794	731,864	38,038	58,060	1,126	4,447	194
1883.....	3,568,586	80,028	1,463,193	69,552	.....	.....	.....	.....
1884.....	1,218,042	35,856	1,291,455	61,884	.....	.....	.....	.....
1885.....	3,598,101	104,854	1,223,333	59,292	.....	.....	.....	.....
1886.....	5,354,702	131,077	955,667	38,438	29,573	604	3,924	72
1887.....	7,552,404	185,224	1,400,426	50,236	19,125	542	401	6
1888.....	10,400,022	317,948	2,355,576	82,184	5,066	211	1,336	33
1889.....	12,511,539	303,106	608,251	30,426	.....	.....	.....	.....
1890.....	5,812,080	167,958	2,917,495	107,545	44,154	1,052	4,614	146

ROUMANIA.

The statements of acreage and production for Roumania cover only two crop years, 1890 and 1891, and are from the official volume *Buletin Statistic General al Romaniei*, April, May, and June, 1892. The trade statements are from *Tablou General Indicand Comercial Ro-*

maniei cu Terile Straine for each year. The statements of value which appear in the trade returns have little significance, as in arriving at them an arbitrary standard of value per unit is assumed, and in most instances this standard remains the same during the whole period in question. The statement for 1886 is not at hand.

The production of wheat in the two years given, 1890 and 1891, amounts to an average of nearly 50,000,000 bushels per annum, while the net exportation for the two years 1889 and 1890 is something more than 34,000,000 bushels. If the proportion of the crop exported has remained uniform during recent years it indicates a very rapid increase in wheat production in that country. The production of corn during the two years given averages 61,000,000 bushels, and the exports for the same period about 25,000,000 bushels. The exportation for the whole period, 1880 to 1890, inclusive, averages a little over 24,000,000 bushels, showing a quite uniform annual exportation, and indicating that, unlike wheat, there has been comparatively little change in the production of maize during the past ten years. The rye crop for the last two years has averaged a little more than 4,000,000 bushels per annum, while the exports during the same period have averaged 6,500,000 bushels, with imports only nominal. This apparent anomaly may be explained either by assuming that the crop of the past two years has been below the average or that the heavy shipments of the past few years have been made from an available surplus held over from previous crops. Apparently about one-half of the barley crop of 20,000,000 bushels is shipped each year, but it would appear that the oat crop is largely raised for domestic consumption. In both imports and exports of potatoes there is a very marked falling off between the earlier and the later years of the decade presented. In the statement relative to tobacco the imports and exports include not only tobacco leaf, but all manufactures of tobacco. The figures, however, are given because there are indications that a large proportion at least is made up of raw or leaf tobacco. The wool statements include all kinds of raw wool, and in addition combed and dyed wool, which can not be separately given. In the same way the compilation for imports and exports of cotton includes not only raw cotton, but cotton which has been carded or combed and cotton wadding. The trade in wheat flour exhibits some marked peculiarities. Prior to and including 1884, while the balance of trade was in favor of exportation, the margin was comparatively small. After 1885, however, the importation falls away to insignificant proportions, while there is a marked increase in the annual exports. This statement, in connection with the wheat table already referred to, gives further evidence of the fact that there has been a marked increase in wheat production during recent years.

Production, imports, and exports.

WHEAT.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....			23,795		14,686,223	
1881.....			30,591		7,459,122	
1882.....			25,118	\$23,748	14,698,633	\$13,897,229
1883.....			277,208	262,094	14,755,124	13,950,639
1884.....			252,616		9,770,360	
1885.....			98,554	93,181	14,092,335	13,323,988
1887.....			103,594		18,451,226	
1888.....			102,696	80,914	30,517,656	24,044,801
1889.....			81,681	64,356	34,736,899	27,369,134
1890.....	3,724,936	53,607,639	69,744	54,951	33,907,816	26,715,902
1891.....	3,811,720	45,672,264				

CORN.

1880.....			44,408		15,486,291	
1881.....			26,741		33,240,622	
1882.....			17,018	\$8,343	25,070,700	\$12,290,854
1883.....			285,614	140,022	23,861,962	11,698,271
1884.....			55,581		22,509,608	
1885.....			83,641	41,005	26,298,778	12,892,915
1887.....			101,145		28,866,604	
1888.....			149,138	58,492	14,809,421	5,808,227
1889.....			66,147	25,943	20,811,827	8,162,360
1890.....	4,402,126	62,028,709	34,059	13,358	29,381,082	11,523,205
1891.....	4,184,372	59,977,319				

RYE.

1880.....			6,267		2,507,984	
1881.....			8,155		1,281,833	
1882.....			12,720	\$7,483	3,075,098	\$1,809,071
1883.....			32,928	19,372	2,801,669	1,648,214
1884.....			31,137		3,139,133	
1885.....			51,946	30,560	3,368,901	1,981,915
1887.....			53,471		5,169,394	
1888.....			4,542	2,226	9,198,425	4,509,507
1889.....			52,553	25,764	9,889,485	4,848,297
1890.....	412,926	4,724,747	20,851	10,222	3,411,012	1,672,241
1891.....	301,247	3,882,435				

BARLEY.

[Imports and exports include malt.]

1880.....			12,565		9,977,515	
1881.....			17,218		10,257,377	
1882.....			23,608	\$8,928	18,999,312	\$7,185,370
1883.....			29,688	11,228	11,074,868	4,188,416
1884.....			39,469		5,372,962	
1885.....			35,414	13,393	10,927,362	4,132,631
1887.....			27,150		9,493,146	
1888.....			129,406	38,064	10,685,166	3,143,027
1889.....			52,045	15,309	12,177,335	3,581,946
1890.....	1,280,139	16,516,849	50,936	14,983	8,301,895	2,441,991
1891.....	1,299,521	22,166,136				

OATS.

1880.....			12,272		1,466,405	
1881.....			17,934		1,204,851	
1882.....			17,938	\$4,020	1,321,270	\$296,114
1883.....			12,381	2,775	1,153,556	258,527
1884.....			16,115		982,637	
1885.....			2,930	657	5,258,056	1,178,400
1887.....			8,633		2,114,480	
1888.....			1,111	218	2,564,813	502,957
1889.....			5,939	1,165	1,677,927	329,040
1890.....	441,116	7,582,316	2,653	521	441,553	86,588
1891.....	456,987	7,717,206				

Production, imports, and exports—Continued.

POTATOES.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Values.	Bushels.	Value.
1880.....			85,856		19,265	
1881.....			63,905		19,753	
1882.....			54,130	\$22,746	24,855	\$10,445
1883.....			87,168	36,629	15,063	6,330
1884.....			64,307		31,401	
1885.....			15,400	6,471	9,066	3,810
1887.....			371		1,213	
1888.....					14	6
1889.....					17	7
1890.....			17	7	524	220
1891.....	28,278	1,639,927				

TOBACCO.

Year.	Production.		Imports.		Exports.	
	Acres.	Pounds.	Pounds.	Value.	Pounds.	Value.
1880.....			4,943,639		1,739	
1881.....			689,451		14,782	
1882.....			827,794	\$434,812	38,305	\$13,414
1883.....			1,072,582	315,429	290,749	101,814
1884.....			838,403		4,603	
1885.....			989,330	468,131	121,343	9,342
1887.....			3,239,115		235,674	
1888.....			3,460,406	498,597	3,164	887
1889.....			830,004	365,243	51	154
1890.....			1,065,432	602,014		
1891.....	10,813	6,784,890				

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	173,213		267,504		497,968		4,720,556	
1881.....	204,395		305,569		548,833		4,090,258	
1882.....	236,448	\$51,749	296,521	\$64,897	577,444	\$101,104	3,393,993	\$297,124
1883.....	384,579	84,169	165,083	36,130	771,277	135,042	2,324,671	203,512
1884.....	338,439		135,276		659,859		3,246,245	
1885.....	288,717	63,189	272,255	59,586	570,420	99,874	3,602,462	315,375
1887.....	98,341		167,808		279,292	48,901	1,884,851	165,008
1888.....	109,205	22,901	43,834	9,593	305,564	53,501	1,837,395	160,853
1889.....	105,007	22,982	47,379	10,369	309,652	54,216	1,611,942	141,116
1890.....	94,231	20,623	101,282	22,167	299,565	52,450	2,338,975	204,764

WOOL AND COTTON.

Year.	Wool.				Cotton.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	12,956		9,126,742		613,855		807	
1881.....	15,964		8,191,956		816,255		35	
1882.....	42,342	\$6,442	8,098,151	\$1,162,700	792,981	\$145,287	465	\$102
1883.....	20,767	3,918	7,103,649	990,601	1,116,262	205,930	575	106
1884.....	204,514		6,920,652		830,715		13	
1885.....	56,667	13,619	7,363,871	1,072,178	712,009	133,287	1,936	358
1887.....	57,375		3,767,814		848,284		2,105	
1888.....	34,259	7,498	2,660,498	582,278	947,965	207,472	613	134
1889.....	78,429	17,165	2,875,921	629,426	1,295,837	283,608	170	37
1890.....	131,590	28,800	3,304,215	723,162	1,083,195	237,069	5,315	1,163

Production, imports, and exports—Continued.

FLOUR.

Year.	Wheat flour.				All flour, except wheat.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	9, 149, 218	.....	21, 989, 233	.....	.....	.....	.....	.....
1881.....	16, 745, 983	.....	8, 441, 160	.....	.....	.....	.....	.....
1882.....	12, 606, 719	\$441, 458	18, 398, 388	\$483, 202	.....	.....	.....	.....
1883.....	8, 163, 111	285, 853	11, 081, 437	291, 035	.....	.....	.....	.....
1884.....	8, 262, 753	.....	10, 226, 123	.....	.....	.....	.....	.....
1885.....	9, 110, 545	319, 030	34, 380, 406	902, 942	.....	.....	.....	.....
1887.....	16, 951	.....	20, 545, 020	.....	.....	.....	.....	.....
1888.....	8, 629	302	34, 402, 964	903, 534	8, 135	\$107	66, 162	\$869
1889.....	5, 913	207	36, 437, 933	956, 979	3, 649	48	1, 015, 110	13, 330
1890.....	7, 831	274	19, 545, 534	513, 330	3, 585	47	85, 649	1, 125

RUSSIA AND POLAND.

Prior to 1883 the statistical returns of Russian crop production are very meager, fragmentary, and unsatisfactory. In fact, it is practically acknowledged in official publications of that country that the earlier results are of but little value, except as they indicate a determination to reach a basis or system upon which definite estimates can be made. The present system was first put in force in 1883, and even yet there is a failure to give comparative area devoted to the different crops from year to year, which baffles any effort to indicate the annual changes in breadth of crop, and precludes exactness in indicating crop progress. In production, the figures from 1883 to 1887 inclusive, are from *Annuaire Statistique de la Russie*, for 1890, and for the years 1888 to 1890, from *Résultats Généraux de la Récolte en Russie*, 1891. It will be noted that the statement of acreage does not cover any definite year, but is given as an average of the period 1883 to 1887. These figures are from the first-named publication. It must also be noted, in examining the figures which are presented in the statements below, that in production Russia is given exclusive of Poland and Finland each year, though for the last three years official statements of Poland are given, deduced from certain tables which appear in the work last mentioned.

The statistical data relative to trade and commerce of Russia which is presented is also somewhat complicated, and there are certain facts in connection with it which must be borne in mind in order that any proper comparisons may be made. In the official Russian reports the statement of import and export trade is divided so as to show, first, trade over the European frontier, second, trade with Finland and through the ports of the Black Sea, and third, total trade. The statements of Russian trade which appear in the British publication, *Statistical Abstract for the Principal and Other Foreign Countries*, cover only the trade over the European frontier, and these figures have been most frequently used, owing to the difficulties in translating and in compil-

ing from the official publications in the Russian language. The first series of trade compilations which appear below give the trade over the European frontier, following the example set in the British publication, from which the figures are drawn for the years 1880 to 1887, inclusive. The years 1888, 1889, and 1890 are compiled from the official statement of Russian foreign commerce, issued in the Russian language, the title of which, translated into English, is *Obzor Vnyeshnei Torgovli Rossii*. In order that the statement of the foreign commerce of this country may be given quite complete in this compilation, the exports and imports into and from Finland, and through the Caucasian ports of the Black Sea, for the years 1888 to 1890, inclusive, are presented in the second series of tables, compiled from the official Russian report already referred to. The two statements may be combined to show the total foreign trade of Russia. As an instance of the importance of this trade, which heretofore has not usually been presented as a part of the statement of Russian trade, attention is called to the fact that in 1890 nearly 10,000,000 bushels of wheat were exported which do not appear in the statement of Russian trade over the European frontier. This is nearly 10 per cent of the total wheat shipments of the year.

It will be noted that in the tables of production only the production of European Russia and of Poland is presented. These data are drawn from official sources, but no official statement of the production of Finland and of Caucasia is available. An estimate, somewhat official in its character, made the wheat crop of 1891 in Caucasus about 74,000,000 bushels. The relations between Russia and the Grand Duchy of Finland are somewhat peculiar, the latter country maintaining many of the constitutional rights which it enjoyed prior to 1809, when it was ceded to Russia. In the Russian statistical statement it is treated as a foreign country, not being included in estimates of crop production, and its foreign trade being recorded in its own domestic official publications. As its official data are not immediately available, it has been thought best to insert here available estimates of production. In the statement which follows the figures of production are derived from the reliable publication of Dr. F. v. Juraschek, *Übersichten der Weltwirtschaft*, for the years 1882 and 1887, it being stated that they are originally taken from the publication *Statistik Arbok for Finland*. The figures for 1888 are drawn from the Statesman's Year Book:

Production in Finland.

Year.	Wheat.	Rye.	Barley.	Oats.	Potatoes.
	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>
1882	119, 683	11, 058, 356	5, 875, 092	9, 333, 057	.....
1883	122, 208	12, 257, 049	5, 883, 267	10, 269, 176	.....
1884	120, 747	11, 059, 939	5, 361, 675	10, 245, 793	.....
1885	117, 980	10, 940, 813	5, 280, 602	10, 497, 275	15, 799, 633
1886	132, 928	12, 775, 410	6, 120, 243	12, 330, 058	18, 481, 897
1887	157, 257	13, 020, 777	6, 122, 627	14, 230, 247	17, 783, 773
1888	148, 078	12, 459, 321	5, 568, 807	13, 219, 246	.....

In production of wheat it will be noticed that, with the exception of the years 1885 and 1886, when the harvest was short, the wheat crop of Russia, exclusive of Poland, ranges between 200,000,000 and 300,000,000 bushels. The average crop for the eight years 1883 to 1890, inclusive, is 230,000,000 bushels. The average crop of Poland for the three years which are presented is a little more than 12,000,000 bushels. The average production during the years 1888 to 1890 in Russia and Poland was about 253,000,000 bushels.

The average exportation of wheat during the last three years of the period presented, both over the European frontier to Finland and through the Caucasian ports, is about 118,000,000 bushels per annum, or a little short of one-half of the average production of the same period. The rapid and substantial growth of the export trade will be noted, it increasing from less than 37,000,000 bushels in 1880 to more than 127,000,000 bushels in 1890. Corn appears to be grown only in Russia, the statistics of Poland making no mention of it as a crop. The average production for the period presented is nearly 20,000,000 bushels, while the net exports for the same period will probably average in the neighborhood of 12,000,000 bushels, indicating a very small consumption of this cereal in Russia. Rye is the great cereal crop of Russia, and the bread-grain of her people. The average acreage devoted to its culture in Russia alone during the period 1883 to 1887 was nearly 65,000,000 acres, or nearly as much as the total acreage of all cereals cultivated in the United States, with the exception of corn. The average crop of Russia during the period, 1883 to 1890, was 669,000,000 bushels per annum, and the crop of Poland during the years 1888 to 1890, inclusive, averages 44,000,000 bushels. A very considerable export trade in rye exists, the average shipments during the last ten years being more than 46,000,000 bushels per annum over the European frontier, and nearly 2,000,000 bushels per annum during the last three years into Finland and through Caucasia. Next to rye, oats is the most important cereal crop, the average production for the period presented being 535,000,000 bushels in Russia and 31,000,000 bushels in Poland. From this production there is an average net exportation over the European frontier of 58,000,000 bushels per annum. During the last three years, 1888 to 1890 inclusive, the total exportation from Russia has averaged something more than 78,000,000 bushels per annum, from an average production of less than 575,000,000 bushels. The production of potatoes in Russia averages more than 300,000,000 bushels per annum and in Poland more than 160,000,000 bushels, making a total production for the Empire of 460,000,000 bushels per annum. Practically the whole of this immense production is consumed within the Empire, as the net exportation during the last three years is but little more than 1,250,000 bushels. No official statement of tobacco production is available, but it will be noted from the trade statements that there is a very considerable excess of exports over imports in this product. During the three years, 1888 to 1890 inclusive, the average

imports of tobacco, specifically stated as leaf and stem, were but little over 2,000,000 pounds per annum, while the exports by the same authority averaged nearly 10,000,000 pounds.

In the trade in dairy products Russia appears as an exporting country. The imports of butter are insignificant, except that which is brought in from Finland, but the export trade has reached very considerable proportions, averaging for the last ten years more than 10,000,000 pounds per annum. In the wool trade, which is conducted over the European frontier, this country is very largely an exporter, the net exportation in this production during the years 1888 to 1890 averaging more than 50,000,000 pounds per annum. During the same period the net exportation of wool into Finland and through Caucasia was more than 2,000,000 pounds per year.

The production of cotton has been attempted during recent years in portions of southern Russia believed to be favorable to its cultivation, but it is not possible to give any definite statement of the result of the experiments. The data of production are not included in the official records of Russian crops, and from what is known it is perhaps safe to say that the production has not as yet very much passed the experimental stage. The total net importation of cotton during the years 1888 to 1890 averages above 300,000,000 pounds per annum, of which more than 30,000,000 pounds go in through the Caucasian ports. In the statement of trade in flour, the imports over the European frontier include flour of all kinds, malt, and grits, while the export trade in the same direction is stated as including only flour of all kinds. Prior to 1888 it was not practicable to separate the flour in this trade according to the cereal from which it was produced, but for the years 1888 to 1890 the average exportation of wheat flour was about 78,000,000 pounds and of rye flour about 35,000,000 pounds, these two flours forming practically the bulk of the export trade. In the import trade from Finland and through Caucasia, malt and grits are included with flour, but the export trade in the same direction is made up of wheat and rye flour, stated separately.

Production, imports, and exports.

WHEAT.

Year.	Production.				Imports.		Exports.	
	Russia.		Poland (bushels.)	Total (bushels).	Bushels.	Value.	Bushels.	Value.
	Acres.	Bushels.						
1880.....							36,553,741	\$45,068,841
1881.....							48,972,597	60,709,556
1882.....							76,373,532	81,182,521
1883.....	28,879,231	226,792,568					83,777,096	81,424,043
1884.....		267,442,864					67,725,676	63,529,992
1885.....		178,084,400					91,758,136	71,027,674
1886.....		163,455,273					51,614,696	41,380,827
1887.....		278,697,917					77,797,272	60,519,979
1888.....		313,935,995	14,369,446	328,305,441	350,122	\$245,658	127,445,302	98,331,037
1889.....	197,883,931	10,052,537	207,936,468	113,945	92,868	108,382,491	95,116,630	
1890.....	213,031,826	12,629,698	225,661,524	166,691	94,070	99,955,844	85,228,210	

Production, imports, and exports—Continued.

CORN AND SPELT.

Year.	Corn.						Spelt—Production—Russia.	
	Production—Russia.		Imports.		Exports.		Acres.	Bushels.
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.		
1880.					8,440,003	\$5,214,401		
1881.					8,093,162	3,266,749		
1882.					9,808,126	7,008,654		
1883.					6,605,204	4,175,641		13,363,477
1884.	1,487,805	19,538,658			10,208,584	7,056,986	927,347	11,854,822
1885.		16,544,455			5,378,268	3,008,603		8,404,512
1886.		17,328,982			11,733,320	5,767,725		10,812,522
1887.		22,767,406			17,725,056	8,357,523		9,128,166
1888.		12,999,566			10,895,088	5,008,892		12,711,891
1889.		28,018,215	154,101	\$53,480	13,280,147	7,883,875		14,150,860
1890.		15,292,030	279,017	119,798	9,260,179	5,447,628		10,711,866
		24,233,177	364,794	149,130				

RYE.

Year.	Production.				Imports.		Exports.	
	Russia.		Poland (bushels).	Total (bushels).	Bushels.	Value.	Bushels.	Value.
	Acres.	Bushels.						
1880.							35,542,096	\$32,991,309
1881.							25,362,268	24,459,899
1882.							33,649,750	25,041,571
1883.							45,759,948	32,467,427
1884.	64,604,631	548,835,275					45,634,872	32,386,938
1885.		701,427,399					49,673,040	28,631,314
1886.		662,688,980					43,032,100	21,690,551
1887.		744,192,075					51,322,852	23,493,460
1888.		752,830,062	47,887,431	800,717,493	12,534	\$4,456	68,461,999	29,932,194
1889.		572,921,339	37,798,407	610,659,746	3,774	1,821	52,576,766	27,835,746
1890.		677,180,523	45,458,574	722,639,097	1,913	1,360	47,706,529	25,731,144

BARLEY.

Year.	Production.				Imports.		Exports.	
	Russia.		Poland (bushels).	Total (bushels).	Bushels.	Value.	Bushels.	Value.
	Acres.	Bushels.						
1880.							10,386,341	\$6,903,110
1881.							15,398,476	8,483,979
1882.							20,244,486	12,441,508
1883.							29,678,748	16,070,094
1884.	12,441,567	135,778,336					25,259,396	14,169,713
1885.		134,207,739					22,894,864	12,228,341
1886.		100,156,096					24,574,456	11,838,798
1887.		133,482,298					34,866,424	14,982,088
1888.		167,841,271					59,658,817	21,066,711
1889.		183,443,013	11,595,141	195,038,154	141,725	\$39,227	46,956,845	18,709,187
1890.		128,652,578	7,784,492	136,437,070	174,585	59,333	41,699,274	17,513,048
	163,292,078	12,264,000	175,556,078	33,068	11,341			

OATS.

1880.							42,861,395	\$18,544,422
1881.							38,766,776	21,010,928
1882.							55,947,406	22,966,198
1883.							59,732,724	24,930,414
1884.	34,882,824	574,178,055					60,435,532	25,803,253
1885.		499,793,571					37,433,460	14,548,618
1886.		388,966,705					34,395,900	12,068,704
1887.		569,566,324					60,566,564	17,582,821
1888.		618,335,243					99,186,554	24,548,147
1889.		565,060,014	34,377,436	599,437,450	24,147	\$4,750	78,334,508	23,335,828
1890.		522,189,322	21,738,804	543,928,126	64,145	17,450	55,426,230	17,763,261
	542,643,417	35,986,152	578,629,569	33,517	12,590			

Production, imports, and exports—Continued.

POTATOES.

Year.	Production.				Imports.		Exports.	
	Russia.		Poland (bushels).	Total (bushels).	Bushels.	Value.	Bushels.	Value.
	Acres.	Bushels.						
1883.....	37, 128, 974	265, 483, 935						
1884.....		295, 770, 195						
1885.....		243, 604, 569						
1886.....		279, 913, 536						
1887.....		315, 196, 285						
1888.....		328, 889, 129	156, 915, 585	485, 804, 714			1, 184, 511	\$193, 726
1889.....		342, 035, 212	161, 017, 482	503, 052, 694	11, 655	\$1, 737	957, 676	181, 701
1890.....		331, 627, 698	174, 445, 284	506, 072, 982	15, 553	2, 385	1, 629, 782	279, 908

TOBACCO.

Year.	Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.
1880.....	5, 176, 943	\$4, 378, 903		
1881.....	2, 622, 237	2, 187, 164		
1882.....	3, 437, 813	2, 553, 480		
1883.....	3, 105, 718	2, 106, 000		
1884.....	2, 889, 040	2, 081, 452		
1885.....	2, 744, 588	1, 929, 473		
1886.....	2, 744, 588	1, 643, 555		
1887.....	2, 527, 910	1, 266, 658		
1888.....	1, 950, 571	894, 175	4, 772, 514	\$326, 033
1889.....	2, 230, 989	1, 337, 152	3, 879, 403	280, 974
1890.....	2, 119, 941	1, 108, 502	2, 246, 662	380, 600

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....			6, 773, 029	\$900, 274				
1881.....			5, 627, 344	797, 600				
1882.....			7, 760, 936	1, 037, 199				
1883.....			10, 472, 770	1, 635, 236				
1884.....			7, 583, 730	1, 335, 806				
1885.....			8, 197, 651	970, 628				
1886.....			9, 642, 171	1, 049, 631				
1887.....			11, 086, 691	1, 351, 793				
1888.....	6, 211	\$834	13, 898, 177	1, 846, 660	1, 163, 128	\$300, 135	1, 605, 187	\$101, 862
1889.....	10, 364	1, 548	15, 352, 792	2, 418, 762	1, 306, 677	344, 515	2, 148, 687	173, 389
1890.....	15, 854	2, 178	10, 579, 989	1, 608, 237	1, 410, 863	331, 989	2, 364, 029	178, 263

WOOL AND COTTON.

Year.	Wool.				Cotton.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....			52, 055, 662	\$6, 912, 219	176, 468, 341	\$26, 290, 115		
1881.....			36, 685, 824	5, 695, 382	296, 751, 644	43, 009, 822		
1882.....			43, 660, 039	6, 011, 948	242, 325, 453	35, 329, 647		
1883.....			67, 170, 180	8, 442, 182	292, 154, 170	44, 906, 321		
1884.....			60, 453, 163	7, 669, 149	226, 681, 301	37, 246, 103		
1885.....			51, 749, 929	5, 892, 993	230, 328, 714	32, 387, 158		
1886.....			82, 915, 448	9, 558, 440	261, 747, 024	32, 837, 350		
1887.....			63, 558, 880	5, 709, 701	363, 116, 215	41, 675, 685		
1888.....	10, 838, 125	\$3, 019, 705	41, 694, 929	5, 660, 363	248, 813, 586	30, 447, 439	22, 498	\$1, 823
1889.....	8, 525, 015	2, 462, 596	78, 306, 815	12, 310, 627	311, 277, 629	43, 527, 484	167, 456	8, 363
1890.....	6, 031, 124	1, 790, 502	59, 633, 650	7, 483, 175	288, 715, 057	41, 240, 462	232, 604	15, 394

Production, imports, and exports—Continued.

FLOUR.

[In imports of flour of all kinds are included malt and grits.]

Year.	Flour of all kinds.				Wheat flour—exports.		Rye flour—exports.	
	Imports.		Exports.		Pounds.	Value.	Pounds.	Value.
	Pounds.	Value.	Pounds.	Value.				
1880....			92,105,845	\$2,084,951				
1881....			70,958,454	1,483,729				
1882....			101,133,373	2,479,325				
1883....			85,948,940	1,996,921				
1884....			98,949,620	3,098,463				
1885....			180,565,000	3,997,887				
1886....			131,451,320	2,735,153				
1887....			135,062,620	2,478,432				
1888....	3,665,036	\$97,677	144,616,025	2,657,490	97,320,851	\$2,183,857	45,060,321	\$442,979
1889....	5,994,614	215,375	110,730,583	2,940,967	78,059,947	2,521,778	31,274,219	396,588
1890....	6,961,936	216,425	87,598,799	2,206,639	58,393,313	1,795,628	27,405,939	385,345

Trade with Finland and through the ports of Caucasia.

WHEAT AND CORN.

Year.	Wheat.				Corn.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1888....	48,551	\$21,670	1,796,466	\$1,278,574			3,362,621	\$1,684,095
1889....	67,395	34,516	6,303,789	5,418,296			4,067,328	1,850,242
1890....	91,414	50,797	9,638,105	8,297,249	3	\$2	4,029,550	1,815,192

RYE AND BARLEY.

Year.	Rye.				Barley.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1888....	241	\$142	713,991	\$361,232	44,566	\$12,297	552,757	\$219,623
1889....	402	190	1,778,395	841,915	49,709	16,601	2,561,332	942,639
1890....	2,135	798	1,888,152	881,058	22,834	7,912	3,963,041	1,399,704

OATS AND POTATOES.

Year.	Oats.				Potatoes.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1888....	6,048	\$1,882	205,184	\$62,410			9,256	\$1,786
1889....	1,914	644	823,163	211,898	8,456	\$3,085	14,061	3,447
1890....	4,029	1,212	3,010,979	716,668	20,445	6,741	14,067	4,034

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1888....	6,229,348	\$776,781	1,545,968	\$150,236	166,336	\$12,289	72,190	\$11,199
1889....	6,500,593	1,070,773	1,791,421	183,944	185,043	15,017	82,302	15,634
1890....	4,795,662	777,644	841,252	117,335	258,172	18,083	111,192	19,635

Trade with Finland and through the ports of *Caucasia*—Continued.

TOBACCO AND COTTON.

Year.	Tobacco.				Cotton.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1888....	58,720	\$8,504	6,514,460	\$254,681	38,097,590	\$3,335,063	30,443	\$3,166
1889....	21,343	5,923	6,639,556	334,087	53,015,184	5,346,876	54,603	6,671
1890....	10,184	2,878	5,132,235	216,297	20,631,321	1,238,405	1,378,939	116,654

FLOUR, MALT, AND GRITS, AND WHEAT AND RYE FLOUR.

Year.	Flour, malt, and grits— imports.		Wheat flour—exports.		Rye flour—exports.	
	Pounds.	Value.	Pounds	Value.	Pounds.	Value.
1888.....	244,666	\$2,600	53,118,142	\$1,247,064	122,385,657	\$1,224,514
1889.....	298,727	4,389	58,542,387	1,518,814	94,138,321	1,183,233
1890.....	2,207,985	20,007	75,888,472	1,559,878	67,079,609	803,876

WOOL.

Year.	Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.
1888.....	5,570,430	\$372,499	7,297,787	\$788,548
1889.....	4,439,046	353,167	7,814,348	832,639
1890.....	4,296,075	180,736	6,548,984	690,731

SERVIA.

No official statements of acreage and production of the principal crops for this country are available. The figures on trade are from *Spolina Trgovina Kraljevine Srbije*, published in the Servian language, and the data are available for only three years, 1888 to 1890, inclusive.

Servia is a wheat exporting country, the balance in favor of exports during the period in question amounting to 2,200,000 bushels per annum. There is a considerable production of maize in this country, as in the other countries of the lower Danube, and the average exportation amounts to more than 220,000 bushels a year. In rye the balance of trade is largely in favor of exports, but it may be noted that in 1890 there was a very heavy importation almost equaling the exports of that year. After wheat oats is the most important cereal in the grain trade of the country, the net exports averaging nearly 450,000 bushels per annum. In the case of tobacco the balance of trade is largely in favor of importation, the average for the period amounting to 834,000 pounds. For some reason, which apparently is not explained in the official report, the imports of 1888 were very large, amounting to nearly 2,000,000 pounds, against 360,000 pounds in 1889. So far as can be judged from the official report the wool trade of the country is

made up entirely of wool imports, no record of exportation being presented. The lack of industrial development in Servia is shown by the fact that while it appears as an exporting country in the matter of wheat and other grains there is a large importation of flour each year. It is not specified what cereal is represented in this flour, but from the dietary habits of the people it is quite likely that a large portion of it is rye flour.

Imports and exports.

WHEAT AND CORN.

Year.	Wheat.				Corn.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1888.....	64	\$69	2,653,588	\$1,672,452	157	\$77	352,479	\$186,224
1889.....	17,828	11,600	1,834,553	1,162,004	1,804	925	72,324	35,232
1890.....	94,381	54,802	2,334,867	1,517,968	545	288	242,277	114,529

RYE AND BARLEY.

Year.	Rye.				Barley.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1888.....	14	\$8	102,089	\$50,049	39,813	\$15,938	96,310	\$40,365
1889.....	8,716	4,474	101,711	49,965	13,567	6,181	143,650	58,066
1890.....	211,421	102,181	320,764	167,581	122,445	44,742	249,667	95,429

OATS AND TOBACCO.

Year.	Oats.				Tobacco.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Pounds.	Value.	Pounds.	Value.
1888.....	7	\$2	396,686	\$111,507	1,964,188	\$232,598	29	\$12
1889.....	140,397	32,938	472,983	108,193	362,815	47,872	1,301	1,156
1890.....	140,397	32,938	594,070	191,624	177,056	32,150	214	164

WOOL AND FLOUR.

Year.	Wool—imports.		Flour.			
			Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1888.....	159,298	\$29,622	1,852,267	\$37,190	1,042,165	\$13,959
1889.....	261,058	40,851	1,270,440	29,054	1,427,677	20,134
1890.....	269,407	34,676	1,417,311	33,380	305,785	5,762

SPAIN.

The official data available for Spain covers only imports and exports of the products under consideration, there being no regular estimates of production. The authority from which these figures are taken is the official publication of trade returns, *Estadística General del Comercio Exterior de España*. It will be noticed that the figures for 1885 are not at hand. In wheat Spain is an importing country, there being a net importation during the ten years under consideration of more than 6,000,000 bushels per annum. The monetary unit, the peseta, is reduced on the gold standard at the rate of 19.3 cents. There is a growing deficiency in the home-grown supply of wheat necessitating enlarged importation. During the five years from 1880 to 1884, inclusive, the net importation was but little more than 4,000,000 bushels per annum, while during the five years, 1886 to 1890, inclusive, it rose to 7,000,000 bushels.

In the original Spanish returns the imports of all cereals, excepting wheat, are grouped together, and the average annual value for the period is \$2,539,650. The average exportation of the same cereals during the period is \$355,135, of which rye furnishes the largest part.

The returns do not show any importation of potatoes directly, although it is quite possible that there may be a small importation classed with some miscellaneous item. The exports during the period amount to 74,859 bushels, but the foreign shipments show a very considerable increase during the decade from 1880 to 1890, the average for the first half being some 63,000 bushels, against more than 86,000 in the last five.

The importation of tobacco, which averages more than 38,000,000 pounds per annum, may include some manufactured tobacco, but the effort has been made, as far as possible, to present only the importation of the raw leaf, and it is believed that very little that is advanced in manufacture is included. In dairy products, Spain appears as an importing country, she buying a little more butter than is sold, while her importation of cheese reaches a very considerable figure. In the decade presented the importation of wool has been remarkably uniform, ranging from little more than 3,000,000 to little less than 4,500,000 pounds in any year, except in 1880, when it was small. There has been more variation in the exportation, but the figures presented show a steady increase as an exporting country; the average gross shipments of wool during the five years 1880 to 1884 being less than 9,000,000 pounds against more than 17,000,000 for the last half of the decade. In the imports, considerably more than half of the total is made up of washed wool, but the exportation is practically all unwashed. The cotton statement will show a normal increase in the importation of this fiber, while the showing of exports indicates that the reëxportation of cotton is fitful and not in the line of any regularly established

trade. Spain manufactures wheat of her own production and her net importation of that cereal, into flour for shipment abroad, her average net exports amounting to nearly 19,000,000 pounds. The increase, however, in her imports is noticeable during the last half of the decade, accompanied by a shrinkage in exports for the same period. During some of the later years there is a net importation.

The trade in flour, other than that of wheat, is insignificant in detail, though the balance is on the side of importation.

Imports and exports.

WHEAT, POTATOES, AND TOBACCO.

Year.	Wheat.				Potatoes—exports.		Tobacco—imports.	
	Imports.		Exports.		Bushels.	Value.	Pounds.	Value.
	Bushels.	Value.	Bushels.	Value.				
1880....	1,099,036	\$1,616,399	109,081	\$154,701	52,447	\$33,058	23,873,779	\$3,171,771
1881....	794,008	1,040,985	97,325	148,253	87,035	54,859	32,684,187	4,177,598
1882....	10,131,012	14,367,968	112,335	182,918	96,575	60,873	40,181,423	4,409,296
1883....	8,762,109	12,426,567	66,277	104,439	54,991	37,550	49,919,245	5,741,061
1884....	3,625,155	3,998,754	17,675	19,497	24,990	15,752	36,592,780	3,882,255
1886....	5,506,054	5,784,279	22,023	23,135	38,170	24,059	53,925,978	7,245,930
1887....	11,540,736	12,123,897	27,655	29,052	56,050	29,441	33,110,111	4,289,019
1888....	8,938,697	8,451,339	7,469	7,062	101,598	48,029	24,087,768	2,876,258
1889....	5,339,260	5,048,150	5,965	5,640	108,027	51,068	44,195,726	4,763,319
1890....	5,929,925	5,606,611	25,692	24,291	128,705	74,365	43,519,397	5,671,239

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880....	441,160	\$135,174	294,307	\$64,412	1,775,688	\$279,812	47,249	\$6,205
1881....	425,940	130,510	322,685	70,623	1,904,642	300,133	62,602	8,221
1882....	461,654	121,245	488,667	106,950	2,159,084	378,031	47,223	6,201
1883....	425,225	120,985	504,084	110,324	2,270,213	397,488	66,546	5,826
1884....	426,874	142,007	397,556	97,450	2,336,417	409,080	61,094	5,348
1886....	492,327	163,781	351,942	86,269	2,650,381	464,051	41,903	3,668
1887....	494,398	160,207	476,930	116,907	2,762,906	483,752	38,973	3,412
1888....	608,816	197,204	511,705	125,431	2,794,968	489,367	57,209	5,008
1889....	490,303	158,816	705,373	172,904	2,650,740	464,114	7,247	5,012
1890....	612,151	192,925	638,970	156,627	2,934,715	513,835	58,365	6,387

WOOL AND COTTON.

Year.	Wool.				Cotton.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880....	1,994,629	\$723,666	13,760,238	\$2,270,020	98,717,081	\$15,555,799	44,092	\$6,948
1881....	3,683,527	1,260,640	8,546,776	1,249,182	99,393,703	12,862,286	.....	.....
1882....	3,695,809	1,302,756	5,901,421	1,139,312	102,261,231	15,219,046	15,930	2,371
1883....	3,654,449	1,356,355	8,666,215	1,546,150	119,702,187	15,718,853	.....	.....
1884....	3,727,913	1,457,845	8,017,056	1,270,173	116,010,929	14,726,326	.....	.....
1886....	4,476,138	1,626,030	20,289,189	3,106,325	101,063,690	11,501,805	90,422	10,291
1887....	3,345,864	1,257,521	18,284,388	2,725,726	102,021,309	12,057,358	.....	.....
1888....	3,128,858	1,109,335	20,084,510	3,000,410	93,478,607	11,047,742	32,478	3,838
1889....	3,056,196	1,231,658	18,840,688	2,985,577	140,412,918	17,209,276	4,153	5,609
1890....	3,873,645	1,374,826	10,961,161	1,652,703	109,872,021	13,466,125	1,515	186

Imports and exports—Continued.

FLOUR.

Year.	Wheat flour.				Flour of all cereals, except wheat.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880....	8,907,565	\$327,518	82,135,049	\$2,516,657	184,935	\$4,857	.....	.....
1881....	3,424,588	121,420	83,301,356	2,552,393	43,845	1,151	.....	.....
1882....	38,541,673	1,349,640	62,043,932	2,083,963	734,343	19,286	326,115	\$12,847
1883....	47,349,559	1,533,717	52,307,576	1,831,690	481,374	11,378	.....	.....
1884....	11,597,029	345,186	56,720,575	1,688,290	169,296	3,705	.....	.....
1886....	25,013,550	700,733	46,067,487	1,371,201	407,038	8,908	.....	.....
1887....	53,206,866	1,490,545	33,575,915	999,388	292,667	6,405	105,997	2,320
1888....	78,531,084	2,062,483	39,438,025	1,104,823	253,176	5,098	.....	.....
1889....	67,579,363	1,774,855	51,579,192	1,444,947	227,790	4,586	.....	.....
1890....	56,185,684	1,475,620	69,981,535	1,960,473	213,480	4,298	78,248	1,575

SWITZERLAND.

No official estimates of crop production are available for Switzerland. The statements of trade are from the official publication, *Waarenverkehr der Schweiz mit dem Auslande*, for each year.

The figures cover only the years 1885 to 1890, earlier reports not being at hand. The imports of the cereals show a small but generally steady increase from year to year, with no exportation of any consequence. The imports of tobacco average 12,000,000 pounds per annum, and the figures are remarkably uniform from year to year, except in 1890, when there was an increase over the importation of the preceding year of 8,000,000 pounds. In the statement of butter imports the figures from 1885 to 1888 include butter, oleomargarine, and other artificial products used as butter. For 1889 and 1890 these imitation products are stated separately. During the last two years the average importation of butter was 3,460,340 pounds, and of the imitations 956,246 pounds. In the exportation, if any spurious compounds are shipped, no statement to that effect is made in the official volume, leaving it to be inferred that the total importation of oleomargarine, etc., is for consumption within the country. The importation of cheese during the period under consideration has averaged nearly 3,000,000 pounds, against an annual exportation of more than 56,000,000 pounds.

The figures of wool include not only raw wool, but shoddy and waste as well. But little fluctuation appears in the export trade, and there is a steady increase in the imports, and the balance in favor of importation averages nearly 4,500,000 pounds per annum. The same increase is apparent in the imports of cotton, rising from 50,000,000 pounds in 1885 to 60,000,000 pounds in 1890.

In the statement for flour in 1885 and 1886, the figures include, in addition to flour of all cereals, oatmeal, pearl barley, wheat grits, etc. For the remaining years these products have been separated. The average importation of flour being 55,000,000 pounds, and of oatmeal, etc., 21,000,000 pounds, for the period 1887 to 1890. In the case of ex

ports the same fact is to be noted, but while there is an average exportation of 10,000,000 pounds of flour, there are only 335,000 pounds of other products.

Imports and exports.

WHEAT AND CORN.

Year.	Wheat.				Corn.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1885....	9,917,698	\$10,939,789	12,052	\$13,344	984,299	\$844,463	1,929	\$1,847
1886....	10,785,010	12,179,733	13,430	14,171	1,098,544	915,550	1,213	1,207
1887....	10,642,409	11,739,186	13,819	15,645	1,084,974	851,050	2,527	2,054
1888....	11,029,493	12,890,338	11,949	12,426	1,091,600	896,383	5,145	5,041
1889....	10,766,719	12,866,000	8,146	9,204	1,265,232	1,038,964	2,555	2,819
1890....	12,134,273	14,423,713	9,608	10,635	1,375,048	1,129,141	10,795	8,616

RYE AND BARLEY.

Year.	Rye.				Barley.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1885....	137,681	\$113,059	1,386	\$1,632	649,916	\$587,171	7,505	\$6,504
1886....	165,534	123,758	461	488	604,240	571,295	2,352	1,787
1887....	168,109	123,622	303	333	670,322	633,775	11,919	10,383
1888....	304,180	238,597	468	402	614,051	5,185	5,185	4,598
1889....	213,783	167,691	421	364	618,790	611,054	4,235	3,349
1890....	178,569	140,069	1,425	1,102	659,883	679,363	7,652	6,033

OATS AND POTATOES.

Year.	Oats.				Potatoes.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1885....	2,297,345	\$1,126,268	5,677	\$2,898	831,226	\$227,039	31,816	\$11,747
1886....	2,340,968	1,049,284	3,458	1,620	1,103,637	376,807	32,463	11,632
1887....	2,757,837	1,197,506	5,773	2,418	869,766	296,958	32,779	15,664
1888....	3,530,860	1,607,353	8,102	3,507	1,247,910	498,168	33,271	14,777
1889....	3,543,839	1,886,275	7,902	3,499	1,460,320	467,904	25,592	12,746
1890....	3,331,406	1,749,872	7,785	3,964	1,416,070	409,097	38,375	17,465

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1885....	2,621,931	\$305,281	1,555,566	\$396,229	2,741,861	\$264,038	54,117,639	\$7,633,096
1886....	2,882,294	302,794	1,597,894	399,244	2,393,314	230,473	60,476,367	7,358,323
1887....	3,082,472	397,316	1,440,045	354,059	2,528,676	245,508	61,477,476	7,850,801
1888....	2,979,958	452,389	1,544,763	376,933	3,058,221	294,503	52,535,459	7,036,124
1889....	3,363,999	662,622	968,260	244,833	3,047,639	293,484	57,335,914	7,535,171
1890....	3,556,681	700,576	445,991	119,608	3,182,561	306,476	51,020,176	7,373,994

Imports and exports—Continued.

TOBACCO AND OLEOMARGARINE.

Year.	Tobacco.				Oleomargarine—im-ports.	
	Imports.		Exports.		Pounds.	Value.
	Pounds.	Value.	Pounds.	Value.		
1885.....	11,521,460	\$1,109,501	349,650	\$51,463	.....	.....
1886.....	10,541,074	1,015,091	361,775	47,189	.....	.....
1887.....	10,621,322	1,022,819	510,585	68,697	.....	.....
1888.....	11,498,091	1,107,251	333,556	45,888	.....	.....
1889.....	11,178,204	1,076,446	465,171	66,379	576,503	\$73,181
1890.....	19,197,657	1,848,708	289,684	37,187	1,335,988	169,589

WOOL AND COTTON.

Year.	Wool.				Cotton.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1885.....	5,254,885	\$966,073	2,323,648	\$376,083	50,365,851	\$6,613,859	401,237	\$49,428
1886.....	5,705,946	1,148,902	2,420,430	364,206	43,194,728	5,294,029	533,072	59,993
1887.....	6,377,026	1,228,198	2,586,657	386,510	59,634,210	7,517,708	255,293	28,372
1888.....	7,023,856	1,352,776	2,722,901	415,878	49,256,276	6,252,549	370,373	40,710
1889.....	8,718,311	1,869,933	2,773,607	473,227	62,960,290	8,488,187	284,173	37,466
1890.....	8,724,705	1,871,304	2,326,294	453,027	60,128,922	8,180,163	175,486	25,668

FLOUR AND OATMEAL.

Year.	Flour.				Oatmeal.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1885.....	66,665,340	\$1,780,031	9,001,602	\$240,352	.....	.....	.....	.....
1886.....	67,528,221	1,803,070	11,187,904	298,728	.....	.....	.....	.....
1887.....	63,142,390	1,713,603	7,257,102	196,948	17,828,159	\$468,226	657,632	\$21,145
1888.....	61,738,941	1,716,052	10,976,703	305,101	18,110,348	479,125	253,749	8,554
1889.....	50,275,903	1,463,454	10,740,811	299,954	23,494,202	624,245	151,236	5,468
1890.....	46,346,424	1,349,073	12,476,052	363,159	25,137,070	670,886	280,866	9,056

UNITED KINGDOM.

Regular official estimates of crop production in the United Kingdom were first made in 1884. The figures which are presented in the following statement, from 1884 to 1891, inclusive, are from the *Agricultural Produce Statistics of Great Britain*, and are exclusive of the cropped areas in the Isle of Man and Channel Islands. The returns of acreage are available for a much longer period, and the figures which are presented from 1880 to 1883, inclusive, are from the *Statistical Abstract of the United Kingdom*, and include the areas in the islands referred to. The trade returns are taken from the official publication, *Annual Statement of the Trade of the United Kingdom*, for each year.

The production of wheat in the United Kingdom shows a comparatively steady decline during the twelve years presented. The acreage

in 1880 was something more than 3,009,000 acres, and in 1891 it had declined to 2,388,147 acres. The average production for the seven years ending in 1890 was 77,676,551 bushels. These returns are eloquent of the pressure which has been brought to bear upon farmers of Great Britain by the competition with cheap wheat-growing areas in other lands. While a reduction in the amount of home-grown wheat has been made from year to year the amount of foreign wheat imported has grown larger, running from 103,155,591 bushels in 1880 to 123,784,196 in 1891, an increase of a little less than 20 per cent in twelve years. The average annual importation of wheat from 1881 to 1890 amounted to 107,120,176 bushels, and the average exportation for the same period was 1,592,528 bushels, leaving a net importation of 105,527,648 bushels against an annual production of 77,676,551 bushels. A very large part of the market of the world for the surplus wheat produced in all countries is found in this little insular kingdom, and the striving for precedence in this trade by wheat-growers of the United States, Russia, India, Australasia, and other producing countries has resulted in a cheaper supply of breadstuffs for this teeming population, but it has also resulted in placing the British farmer in the midst of an agricultural depression that is not equaled even by that existing among those who have brought about his ruin.

Indian corn is not grown in the United Kingdom. Demand exists for it mainly for consumption by work animals, which requires an annual import of more than 60,000,000 bushels. The people of Europe as a rule do not appreciate the advantages of this grain as a human food, and heretofore the shipments from this country have been mainly controlled by conditions existing at home. When the surplus was large and prices low, Great Britain and some continental countries have taken it because it was cheap enough to use in competition with other animal foods. The effort which is now being made to call the attention of the various countries of Europe to the fact that it is admirably adapted for human consumption may result in a substantial and to-be-desired enlargement in our annual shipments. More than half the imports into the United Kingdom are shipped from the United States. The Danubian countries and the Argentine Republic furnish the larger part of the remainder.

The production of oats is something more than double that of wheat, averaging for the past seven years 167,306,646 bushels, while the average importation is a little under 50,000,000 bushels. The larger portion of this importation is supplied by Russia, Norway, and Sweden. The net importation of barley averages something more than 35,000,000 bushels per annum, and of this sum by far the larger portion comes from southern Russia and the countries of the lower Danube. The figures of production include both barley and bere. The production of potatoes averages more than 228,000,000 bushels per annum, and in addition to this the requirements of consumption demand the importa-

tion of more than 5,000,000 bushels each year. More than one-half of this quantity is furnished by the Channel Islands. The total acreage of potatoes cultivated in the Channel Islands in 1891 amounted to 8,819 acres. During that year the imports from the Channel Islands alone amounted to 2,336,783 bushels, or nearly 265 bushels shipped for each acre of cultivation. The bulk of this remarkable trade is made up of early-grown potatoes, and it illustrates the garden-like cultivation that is carried on in these islands. According to the official record there are no exports of potatoes for the United Kingdom, but it is equally a matter of record that this country imports from Scotland more or less potatoes every year.

The imports of tobacco averaged during the decade under consideration something more than 60,000,000 pounds per annum. Of this amount nearly 7,000,000 pounds is reexported, leaving the annual demand for consumption in the United Kingdom about 53,000,000 pounds. The figures given represent leaf and unmanufactured tobacco only. Of the total imports the United States furnishes probably more than five-sixths, Holland being the only other single country of marked prominence as a source of supply.

The statements relative to dairy products show that the United Kingdom is a very large importing country both in butter and cheese. The imports of butter from 1880 to 1885, inclusive, include oleomargarine and imitation butters, while from 1886 to 1891 these compounds have been eliminated and are presented in another statement. It is a point worthy of consideration that while the imports of pure butter during the years 1886 to 1891 averaged 195,000,000 pounds, the imports of the spurious compounds during the same period have averaged 128,000,000 pounds. The statements of exports also include these imitation products during the first six years presented, but in the last six a separation is made and it may be noted that the exports of butterine, which average more than 2,000,000 pounds per annum, are distinctly credited with a foreign or colonial origin. If that be true, then the people of the United Kingdom consume each year 126,000,000 pounds of substitutes for butter in addition to whatever may be manufactured inside their own country.

The annual wool trade of the United Kingdom is by far greater than that of any other country in the world. The imports during the years 1881 to 1890 averaged 561,000,000 pounds per year, drawn from every quarter of the globe and produced under every condition of agriculture, from the intensive and scientific methods of Holland to the nomadic and pastoral conditions of the plains of Asia and pampas of South America. The fluctuations during the ten years ranged from something more than 450,000,000 pounds in 1881 to 720,000,000 pounds in 1891. The exportation of wool during the same period averaged 322,000,000

pounds, leaving a net importation of 239,000,000 pounds. This, with the annual domestic production, gives the United Kingdom a larger wool supply for manufacture per head than any other country.

The annual imports of cotton are rapidly approaching a figure equaling 2,000,000,000 pounds per annum, and averaging for ten years 1,734,000,000 pounds. Of course, the larger portion of this supply comes from the United States, although cotton is drawn each year from practically all the countries of the world which produce any fiber and are open to the ramifications of English commerce. The net imports of wheat flour, which amount to more than 1,600,000,000 pounds per annum, equivalent perhaps to 36,000,000 bushels of wheat, are in the main from the United States, the milling centers of the upper Danube being the only other important sources of supply. Rye flour was imported in two years only—1880, 1,036,000 pounds, and in 1881, 865,984 pounds.

Production, imports, and exports.

WHEAT.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	3,065,895	.....	103,155,591	\$149,020,557	3,062,466	\$4,390,634
1881.....	2,967,059	.....	106,676,142	153,448,215	2,858,832	3,231,395
1882.....	3,163,899	.....	119,916,065	166,722,037	2,502,347	3,417,393
1883.....	2,713,282	.....	119,725,445	153,073,232	1,191,857	1,517,384
1884.....	2,744,928	84,595,368	88,304,825	96,852,081	2,287,268	2,411,876
1885.....	2,549,335	82,071,332	114,797,879	117,214,096	1,458,178	1,509,710
1886.....	2,355,451	65,285,353	88,546,838	87,157,214	2,239,365	2,218,520
1887.....	2,384,505	78,567,593	104,164,700	103,840,978	1,274,631	1,289,340
1888.....	2,663,250	76,760,671	106,887,878	107,043,407	852,113	898,483
1889.....	2,539,099	78,149,523	109,296,856	109,547,358	877,029	931,385
1890.....	2,478,677	78,306,016	112,885,136	114,770,777	883,661	922,888
1891.....	2,388,147	77,016,151	123,784,196	143,309,685	1,217,405	1,401,401

OATS.

1880.....	4,191,716	.....	48,393,562	\$24,013,589	1,080,996	\$540,965
1881.....	4,306,391	.....	36,134,417	18,380,099	2,613,429	1,354,746
1882.....	4,244,639	.....	47,734,600	22,391,623	1,705,396	878,082
1883.....	4,370,076	.....	52,981,390	24,382,591	475,647	251,846
1884.....	4,263,807	166,491,195	45,226,531	20,399,351	323,593	170,843
1885.....	4,269,359	165,498,004	45,700,162	20,686,066	512,183	241,310
1886.....	4,403,579	174,714,822	47,198,316	19,338,415	743,785	318,177
1887.....	4,403,044	155,542,298	50,620,301	16,975,953	338,954	131,208
1888.....	4,163,110	162,955,068	65,697,401	22,376,196	553,879	213,980
1889.....	4,127,656	169,250,498	55,966,985	21,755,299	598,154	273,760
1890.....	4,124,011	176,694,635	44,545,151	19,020,701	431,291	203,123
1891.....	4,114,525	171,719,639	58,101,379	26,625,979	405,934	204,325

RYE.

1880.....	47,987	.....	252,224	\$251,929	47,980	\$48,524
1881.....	49,084	.....	338,426	384,522	17,728	19,174
1882.....	64,382	.....	611,378	576,442	49,844	45,794
1883.....	58,082	.....	375,652	342,076	40	389
1884.....	54,234	.....	441,158	366,842	15,384	11,300
1885.....	59,301	.....	682,390	514,628	11,596	8,930
1886.....	66,601	.....	593,882	407,647	3,230	2,322
1887.....	66,010	.....	1,570,522	823,358	9,786	6,915
1888.....	89,176	.....	2,064,534	1,579,106	16,502	10,657
1889.....	85,281	.....	1,190,002	849,457	5,954	4,326
1890.....	69,458	.....	1,158,248	853,229	30,810	21,160
1891.....	60,148	.....	932,568	816,351	116,128	129,040

Production, imports, and exports—Continued.

INDIAN CORN.

Year.	Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.
1880.....	74, 449, 466	\$54, 325, 129	1, 434, 494	\$1, 072, 421
1881.....	66, 961, 692	50, 652, 002	326, 970	238, 916
1882.....	36, 551, 462	31, 781, 330	255, 912	237, 597
1883.....	63, 478, 212	50, 465, 965	1, 648, 406	1, 338, 502
1884.....	49, 560, 928	35, 514, 856	763, 250	599, 869
1885.....	63, 053, 470	41, 310, 234	272, 178	186, 917
1886.....	62, 023, 130	37, 070, 418	546, 498	333, 477
1887.....	62, 334, 650	36, 733, 666	147, 176	90, 633
1888.....	50, 740, 328	33, 524, 418	103, 000	72, 667
1889.....	72, 384, 650	41, 756, 137	665, 146	389, 359
1890.....	86, 875, 668	47, 998, 450	949, 902	541, 155
1891.....	53, 651, 250	40, 935, 845	483, 556	370, 876

BARLEY.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	2, 695, 000	.....	27, 312, 343	\$24, 386, 805	74, 804	\$84, 244
1881.....	2, 662, 927	.....	22, 880, 536	19, 795, 491	189, 378	171, 199
1882.....	2, 452, 077	.....	36, 260, 261	26, 910, 222	465, 745	363, 936
1883.....	2, 486, 137	.....	38, 409, 765	27, 942, 445	118, 545	107, 282
1884.....	2, 336, 227	82, 436, 102	30, 223, 702	20, 538, 630	199, 015	174, 893
1885.....	2, 436, 823	88, 423, 578	35, 854, 373	22, 056, 856	105, 203	91, 772
1886.....	2, 423, 060	80, 777, 926	31, 998, 486	19, 281, 273	137, 186	109, 486
1887.....	2, 247, 583	72, 153, 035	33, 225, 654	18, 305, 325	164, 351	126, 709
1888.....	2, 256, 870	76, 895, 225	49, 712, 483	29, 540, 108	143, 332	113, 628
1889.....	2, 307, 784	77, 058, 417	40, 602, 123	24, 160, 902	145, 864	125, 775
1890.....	2, 293, 615	83, 340, 137	36, 915, 305	24, 261, 478	158, 303	148, 730
1891.....	2, 291, 117	82, 062, 665	40, 753, 295	28, 916, 251	154, 105	137, 230

POTATOES AND TOBACCO.

Year.	Potatoes.				Tobacco.			
	Production.		Imports.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	1, 380, 578	.....	18, 208, 426	\$13, 855, 057	59, 571, 973	\$8, 501, 381	7, 669, 064	\$1, 015, 410
1881.....	1, 443, 434	.....	7, 531, 390	5, 341, 042	48, 195, 897	6, 692, 532	8, 182, 419	1, 048, 234
1882.....	1, 388, 307	.....	5, 582, 657	4, 852, 484	36, 075, 370	5, 608, 880	7, 849, 622	1, 180, 121
1883.....	1, 359, 726	.....	9, 612, 417	7, 714, 668	56, 475, 189	8, 735, 202	8, 953, 243	1, 311, 030
1884.....	1, 364, 000	253, 252, 720	4, 562, 432	4, 010, 994	53, 530, 407	8, 546, 795	7, 306, 069	1, 007, 409
1885.....	1, 346, 023	237, 971, 701	4, 293, 210	3, 541, 868	79, 123, 339	12, 699, 302	6, 869, 994	1, 066, 455
1886.....	1, 353, 808	217, 858, 181	5, 054, 726	3, 889, 623	83, 217, 982	12, 207, 742	5, 840, 084	843, 851
1887.....	1, 356, 591	266, 347, 051	5, 158, 266	4, 744, 370	72, 178, 994	10, 598, 118	6, 168, 189	929, 443
1888.....	1, 394, 726	208, 407, 024	4, 449, 773	3, 903, 098	46, 679, 898	7, 127, 267	6, 379, 371	931, 560
1889.....	1, 366, 456	240, 254, 448	3, 480, 262	3, 581, 934	74, 978, 458	10, 554, 022	5, 669, 216	790, 354
1890.....	1, 310, 462	172, 562, 656	3, 621, 520	3, 475, 932	65, 729, 970	10, 183, 954	6, 529, 443	1, 064, 119
1891.....	1, 286, 126	227, 361, 755	5, 959, 961	5, 824, 344	59, 996, 176	10, 410, 694	6, 764, 910	1, 065, 301

Production, imports, and exports—Continued.

BUTTER AND BUTTERINE.

Year.	Butter.				Butterine.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880....	260,546,160	\$59,084,342	8,347,696	\$2,048,845				
1881....	229,302,192	52,880,124	10,918,768	2,442,861				
1882....	245,008,304	55,239,199	9,547,888	2,330,874				
1883....	261,460,976	57,297,845	9,304,624	2,341,428				
1884....	277,248,832	61,042,724	11,293,040	2,706,017				
1885....	268,953,776	56,273,812	12,412,736	2,755,008				
1886....	172,879,392	39,620,308	10,319,792	2,416,650	99,453,088	\$14,415,858	1,967,280	\$236,439
1887....	169,459,808	38,982,485	10,725,120	2,545,691	142,938,880	18,883,611	2,803,472	288,004
1888....	187,200,496	43,375,334	10,106,992	2,299,709	127,651,216	15,905,245	2,277,856	242,541
1889....	215,918,304	49,855,521	10,714,592	2,508,583	139,069,280	17,787,354	3,490,480	345,400
1890....	227,104,304	51,579,294	11,157,216	2,475,667	120,943,872	15,004,592	2,374,176	250,265
1891....	239,187,984	56,406,492	9,629,872	2,342,514	138,368,160	17,315,995	1,114,960	135,843

CHEESE AND WOOL.

Year.	Cheese.				Wool.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880....	198,911,664	\$24,777,853	5,324,592	\$839,476	463,508,963	\$128,355,918	254,576,376	\$75,807,154
1881....	206,090,080	25,525,352	5,844,160	903,724	450,141,735	126,582,648	279,636,148	81,503,105
1882....	189,797,776	23,115,242	8,019,312	1,172,242	488,985,057	121,641,448	277,798,451	78,468,356
1883....	201,566,848	23,799,132	6,892,256	1,019,897	495,946,779	121,434,417	296,624,450	82,377,494
1884....	215,839,568	24,340,457	7,242,032	1,075,039	526,526,661	129,049,457	295,021,951	78,411,588
1885....	205,389,184	19,803,463	7,551,264	994,650	505,687,990	103,061,219	290,890,071	72,705,024
1886....	194,307,680	18,839,969	6,984,880	940,062	596,470,995	109,812,767	334,127,941	63,123,493
1887....	205,720,368	21,969,240	7,309,120	995,719	577,924,661	118,995,761	338,656,354	71,712,764
1888....	214,772,992	22,125,095	8,027,264	1,084,095	639,267,975	126,675,633	362,515,869	72,038,269
1889....	213,695,888	21,855,306	8,204,000	1,087,346	700,903,057	139,253,617	385,203,851	79,753,521
1890....	240,136,288	24,211,490	8,054,144	1,086,899	633,028,131	132,168,115	360,006,616	74,301,425
1891....	228,628,400	23,424,431	8,668,576	1,169,356	720,014,070	136,641,571	400,830,840	80,248,833

COTTON AND WHEAT FLOUR.

Year.	Cotton.				Wheat flour.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880....	1,628,664,576	\$208,150,366	224,577,360	\$26,597,131	1,182,530,944	\$42,368,279	22,858,640	\$688,600
1881....	1,679,068,384	213,321,310	207,710,608	24,218,308	1,272,026,672	44,797,198	17,700,816	520,370
1882....	1,784,111,168	227,044,465	264,998,160	30,607,691	1,462,429,136	51,888,759	28,886,592	1,084,183
1883....	1,734,353,552	219,198,333	247,228,800	25,568,216	1,388,882,944	60,075,862	25,261,152	822,676
1884....	1,749,169,184	216,490,579	251,661,648	26,179,527	1,690,673,712	49,462,050	26,914,272	742,302
1885....	1,425,816,336	177,493,966	206,338,832	21,721,715	1,773,278,416	46,963,891	25,383,904	615,091
1886....	1,715,044,800	185,550,447	197,858,080	19,347,097	1,645,230,720	40,041,810	31,471,440	728,953
1887....	1,791,437,312	195,421,393	292,615,008	27,869,905	2,023,082,208	48,800,697	36,563,520	848,718
1888....	1,731,755,088	194,704,217	274,839,152	26,954,079	1,893,969,504	46,381,375	42,383,712	984,294
1889....	1,937,462,240	222,116,929	277,602,304	28,574,141	1,643,273,184	41,578,928	43,392,944	1,115,737
1890....	1,793,495,200	208,074,872	214,641,840	23,118,274	1,766,613,632	44,160,023	42,352,464	1,041,533
1891....	1,994,885,312	224,251,819	182,008,064	18,433,772	1,872,976,336	49,564,753	44,439,584	1,185,216

BRITISH POSSESSIONS.

CYPRUS.

This British colony has been included in the European statement because of its location. The figures on acreage and production, as well as those on foreign trade, are taken from the British official publica-

tion, *Colonial and Other Possessions of the United Kingdom*, Parts 17, 18, and 19. This publication contains a synopsis of the statistics of the various British Possessions, giving only the most important items in detail. For this reason, in the trade statements especially, figures may be given for only a portion of the years of the period. It must be borne in mind, therefore, that a blank in any given year does not indicate no trade, but rather that for that year it was so small as not to be separately stated in this synopsis. The acreage of wheat is reported for but one year, 1880, when it amounted to 170,243 acres, with a production of 736,174 bushels. In the later years this production was more than doubled, and the average for the period 1880 to 1887, inclusive, is 1,240,312 bushels. During the earlier years of the period under consideration there was a considerable exportation of wheat, reaching as high as 231,000 bushels in 1883. During the same period the importation was not prominent enough to be given special mention in the authority stated. At the close of the period, however, there is a sudden and marked decline in exportation and an equally marked advance in the importation of wheat, there being a net importation in the last year given, 1887, of 132,000 bushels. The average annual production of barley, from 1880 to 1887, was 1,835,120 bushels, and the average exportation during the same period was 266,148 bushels. No statement of imports appears, so it is reasonable to assume that there was a net exportation of this crop. The official statement specifies that the figures of tobacco imports cover only unmanufactured tobacco, including "Tumbeki." By far the largest portion of the imports are brought from Turkey. In the trade in dairy products only imports of butter are given, averaging 191,064 pounds for the period, and in cheese only exports are presented, the average being 290,853 pounds. The production of cotton increased rapidly from 1880 to 1885, the advance being from 650,000 pounds to 5,000,000 pounds, but in 1886 and in 1887 a decline in production is noted. The average for the period was 2,872,682 pounds, and the exports during the same period 852,082 pounds.

Production, imports, and exports.

WHEAT.

Years.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1830.....	170,243	736,174			25,222	\$30,201
1881.....		1,230,569			189,091	202,028
1882.....		1,465,972			197,040	188,942
1883.....		1,285,561			231,084	185,954
1884.....		1,732,895			168,797	116,217
1885.....		1,170,631	32,752	\$38,976	216,473	158,585
1886.....		1,500,776	81,585	96,332	55,477	53,609
1887.....		799,916	134,935	157,271	2,927	2,716

Production, imports, and exports—Continued.

OATS AND BARLEY.

Year.	Oats—production.		Barley.			
			Production.		Exports.	
	Acres.	Bushels.	Acres.	Bushels.	Bushels.	Value.
1880.....	1,377	93,958	162,811	1,297,993	38,666	\$16,833
1881.....		102,743		2,043,038	476,742	180,323
1882.....		138,026		2,287,396	349,034	129,877
1883.....		114,837		1,941,176	420,319	138,398
1884.....		107,613		1,990,903	341,111	110,406
1885.....		122,022		1,386,062	235,760	72,350
1886.....		168,144		2,143,378	244,570	81,962
1887.....		85,761		1,591,016	22,978	9,300

TOBACCO, BUTTER, AND CHEESE.

Year.	Tobacco—imports.		Butter—imports.		Cheese—exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	362,729	\$49,497	150,853	\$29,170	202,823	\$15,008
1881.....	443,638	60,306	171,781	31,910	307,762	21,213
1882.....	439,400	62,885	159,262	29,861	441,019	32,810
1883.....	407,299	60,534	208,582	39,954	284,441	23,023
1884.....	455,397	68,832	181,412	34,615	257,917	21,602
1885.....	471,994	78,575	206,150	34,061	335,632	25,213
1886.....	655,559	103,827	229,874	36,538	319,129	25,856
1887.....	386,797	61,581	220,596	35,550	178,099	13,816

COTTON, WOOL, AND FLOUR.

Year.	Cotton.				Wool—exports.		Flour—imports.	
	Production.		Exports.		Pounds.	Value.	Pounds.	Value.
	Acres.	Pounds.	Pounds.	Value.				
1880.....	4,270	654,797	225,224	\$25,058	489,264	\$45,482	7,305,201	\$210,408
1881.....		1,977,748	194,642	21,198	424,511	38,017	2,942,593	83,008
1882.....		2,546,107	417,546	44,441	454,320	44,344	2,030,686	63,391
1883.....		2,750,877	848,711	82,341	504,017	28,634	1,848,303	51,862
1884.....		3,862,133	1,380,141	130,782	472,945	40,456	2,229,521	51,901
1885.....		5,020,143	1,611,523	143,888	501,182	38,995	1,151,907	32,542
1886.....		3,933,250	1,567,517	129,133	484,532	33,321	2,165,174	55,746
1887.....		2,236,401	571,353	53,974	491,954	37,652	10,921,244	235,738

MALTA.

This colony is grouped with the European statement for the same reasons that govern in the case of Cyprus. The official document from which the figures are taken is the English publication, *Colonial and Other Possessions of the United Kingdom*, Parts 17, 18, and 19. Only statistics of production in the case of three crops are presented. In the case of wheat, with the exception of the first two years, 1880 and 1881, the crop during the period is quite uniform, though there is an apparent tendency toward a decrease of the acreage. The figures of production in 1880 are so large as to indicate some error in the statement. The production of barley averages about 60,000 bushels per annum, but fluctuates from 31,000 bushels in 1881 to 79,000 bushels in 1887. The

culture of cotton appears to be declining in the island, the acreage having fallen from 5,531 in 1880 to 1,947 in 1887, the production during the same period having fallen off more than one-half.

Production of wheat, barley, and cotton.

Year.	Wheat.		Barley.		Cotton.	
	Acres.	Bushels.	Acres.	Bushels.	Acres.	Pounds
1880.....	8,752	307,508	2,539	79,312	5,531	2,292,976
1881.....	9,041	82,159	2,709	30,921	4,890	1,998,192
1882.....	8,285	152,252	2,824	66,636	6,205	3,342,080
1883.....	9,156	187,819	2,515	65,968	4,842	2,035,600
1884.....	9,793	165,456	2,310	61,115	3,847	1,434,720
1885.....	8,540	123,097	2,736	52,550	3,787	1,515,472
1886.....	7,944	110,141	2,740	39,602	2,623	1,095,136
1887.....	6,617	166,265	1,488	79,122	1,947	1,037,344

ASIA.

BRITISH INDIA.

Official estimates of acreage and production are available in India only for wheat, tobacco, and cotton. The statement for wheat is from the final memoranda on the wheat crop of India, issued by the revenue and agricultural department of the government of India. The figures given include, in the case of wheat, not only the British Provinces, but also native states and provinces as well. The acreage given for tobacco and cotton is from the *Statistical Abstract for British India*, and it does not include the areas in Bengal and native provinces.

The trade statements are compiled from the annual statement, *Trade and Navigation of British India*, for each year

In the estimates presented, it would appear that India, instead of becoming a competitor of the United States in wheat production, is actually declining. The average production for the seven years, 1885 to 1891 inclusive, is 254,927,152 bushels, or very close to the crop of 1891. In comparison with this, it will be noted that the first crop reported upon, that of 1885, fell but little short of 300,000,000 bushels. That the decline is not due to unfavorable seasons annually, is shown by the fact that there appears an equal decline in the area cultivated. This decline in wheat production is not reflected in the returns of exports, there appearing to be a slight tendency during the past ten years to enlarge this trade. The period which is given includes practically all of the years in which the exportation of wheat from British India has been a feature in the wheat trade of the world. Prior to 1881, only two years in the history of the trade are marked by exportation of more than 10,000,000 bushels. And prior to 1874 the figure of 1,000,000 was reached in but one year. These facts make it apparent, either that during the past twenty years there has been considerable enlargement in the wheat area of India, or a much smaller proportion of the crop is consumed at home, leaving a larger amount for exportation. Both suppositions may be right, but it is probable that the latter hypothesis will more naturally account for the change. During the past decade the English Government of India has made every effort to develop the internal resources of the country by affording cheaper transportation facilities, with the result that a larger proportion of each crop is available for immediate

use. Under the old system the excess of years of plenty was stored or pitted for use in years of famine, but the new condition of things, by enabling easy and rapid internal interchange, does away with the necessity for this provision for the future.

It should be borne in mind, in making any comparisons of values in the tables presented, that, as was explained in an earlier chapter, the rupee has been reduced to our money according to its value in silver. This may not fairly represent the value of commodities other than silver, because in the decline the intrinsic value of the rupee undoubtedly fluctuates more rapidly than does its purchasing power, viewed as a piece of money in India.

The wool trade of British India forms a very considerable item in the annual foreign trade. A steady increase in the amount exported is each year apparent, the average for ten years past being something more than 30,000,000 pounds, while the exports of 1890 are more than 38,000,000 pounds. A considerable proportion of the wool exported is made up each year of foreign wool; this is mainly wool which is brought into India by land from adjacent countries, and from the native states and provinces not under British rule. In 1890 the figures of exports were, of domestic wool, 23,870,232 pounds, and foreign wool, 14,402,296 pounds. At the same time the imports of foreign wool are given as averaging only a little more than 3,000,000 pounds per annum, and amounting to a little above 5,000,000 pounds in 1890. This apparent discrepancy is probably due to the peculiar relations existing between British India and the native States.

Except where otherwise noted, the figures below include in exports both goods of native produce and foreign goods reexported.

It must not be forgotten that, in calculating values, the rupee has been reduced to American money according to the value set upon it on January 1 of each year by the Director of the Mint.

Production, imports, and exports.

WHEAT.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1881.....			153	\$151	13,896,166	\$12,783,972
1882.....			386,286	315,610	37,148,543	33,618,241
1883.....			369,275	298,645	26,495,024	23,502,820
1884.....			351,512	281,801	39,202,636	34,070,957
1885.....	27,820,223	299,155,584	33,195	21,844	29,586,445	23,874,549
1886.....	27,405,742	258,317,622	71,816	46,721	39,328,658	28,579,032
1887.....	26,735,484	238,585,947	53,519	38,460	41,558,765	29,845,910
1888.....	26,854,882	266,882,112	1,490	1,051	25,271,249	18,467,079
1889.....	25,911,700	237,522,133	199,136	142,099	32,874,628	24,300,192
1890.....	24,773,000	228,592,000	191,442	145,365	25,764,123	19,231,481
1891.....	20,424,000	255,434,667				

Production, imports, and exports—Continued.

OATS, BUTTER, AND CHEESE.

Year.	Oats—exports.		Butter—imports.		Cheese—imports.	
	Bushels.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....	301,588	\$96,506	170,783	\$58,475	498,378	\$153,683
1882.....	265,885	74,798	156,265	54,488	470,798	150,127
1883.....	233,471	84,333	196,242	68,488	478,510	139,592
1884.....	307,038	111,801	161,750	54,881	475,925	134,730
1885.....	219,769	71,726	194,888	68,643	470,168	129,603
1886.....	257,306	81,161	184,183	59,025	582,796	141,140
1887.....	364,585	104,174	258,794	84,442	558,346	136,245
1888.....	244,227	64,424	312,489	102,081	678,679	153,285
1889.....	196,655	58,898	313,772	97,122	723,939	156,246
1890.....	403,974	141,839	297,473	98,697	735,072	152,769

TOBACCO.

Year,	Production—acres.	Imports.		Exports.	
		Pounds.	Value.	Pounds.	Value.
1881.....		537,552	\$21,287	13,267,574	\$476,559
1882.....		780,716	33,416	10,123,812	387,348
1883.....		467,708	20,047	10,661,174	382,288
1884.....		517,985	27,873	18,577,396	570,238
1885.....		522,201	32,488	15,622,282	495,158
1886.....	362,669	519,920	27,782	10,753,741	380,548
1887.....	370,502	604,436	26,107	9,870,952	331,313
1888.....	353,889	700,909	39,575	10,889,631	339,607
1889.....	347,769	481,693	36,358	6,799,880	215,657
1890.....	393,074	449,644	36,937	6,327,893	229,639

COTTON.

1881.....		6,364,400	\$567,655	508,653,376	\$51,642,802
1882.....		4,656,288	406,679	630,508,928	58,271,549
1883.....		4,533,200	378,743	691,159,392	61,975,226
1884.....		5,384,400	381,399	670,575,136	55,159,283
1885.....		7,623,728	614,620	567,807,856	50,255,568
1886.....	8,739,032	8,487,024	635,909	469,459,648	38,491,814
1887.....	9,852,654	6,395,200	408,328	608,816,544	46,626,832
1888.....	9,042,285	6,123,936	415,617	601,983,872	47,852,965
1889.....	9,215,464	7,238,224	486,370	597,137,072	48,597,743
1890.....	10,393,167	12,992,000	892,723	707,994,336	61,988,814

WOOL AND FLOUR.

Year.	Wool.				Flour (Indian produce).			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....	2,775,554	\$282,139	25,748,121	\$4,565,435	1,989,097	\$70,061	.....	.....
1882.....	2,990,077	294,197	26,757,352	4,064,759	2,208,836	77,762	5,107,317	\$128,430
1883.....	2,781,257	266,075	26,380,327	3,870,934	2,134,508	75,894	6,816,048	159,021
1884.....	2,526,942	249,474	25,235,180	3,764,898	2,721,322	95,631	7,890,854	175,957
1885.....	2,591,421	233,684	25,530,173	3,756,825	2,445,059	82,187	11,057,126	224,266
1886.....	3,095,026	277,466	31,328,347	4,305,828	2,501,971	80,821	18,879,201	346,906
1887.....	3,170,582	279,420	33,749,121	4,646,113	2,549,973	82,002	35,744,069	639,367
1888.....	3,475,085	310,120	35,084,143	4,962,859	1,937,426	61,833	36,082,348	635,882
1889.....	4,500,219	403,372	35,117,816	5,130,145	1,605,772	50,730	36,290,371	671,599
1890.....	5,100,556	453,990	38,272,528	5,906,825	2,061,528	50,249	48,572,042	942,107

CHINA.

The trade figures available for this Empire cover only cotton and wool. The figures presented are exclusive of the trade of Hongkong, and are from the English publication, *Abstract for the Principal and Other Foreign Countries*. The statement of wool is from the *Imperial Maritime Customs Report*, an official report published in English by the the Government of China. In the case of cotton, the report mentioned gives a statement of imports and exports from the years 1880 to 1890, inclusive, but only the figures from 1888 to 1890 are presented. This is due to the fact that prior to June, 1887, the trade in native junks was not included. The including of this item made a very marked difference in the aggregate trade, the exports of 1888 being nearly three times as large as those reported for 1887. It may be stated that there is yet some junk trade which is not reported. During the three years under consideration the average annual imports of cotton were a little less than 19,000,000 pounds, and the exports nearly 45,000,000 pounds, showing a net contribution from this country to the commercial supply of cotton amounting to 26,000,000 pounds per annum.

The average exportation of wool during the three years, 1888 to 1890, amounted to 12,564,889 pounds. No statement of imports is available.

Imports and exports of cotton and wool.

Year.	Cotton.				Wool—exports.	
	Imports.		Exports.		Pounds.	Value.
	Pounds.	Value.	Pounds.	Value.		
1888.....	20, 877, 200	\$1, 739, 950	27, 006, 133	\$2, 562, 200	10, 905, 200	\$752, 094
1889.....	15, 139, 333	1, 394, 950	67, 256, 000	5, 801, 750	13, 624, 267	1, 074, 222
1890.....	19, 941, 600	2, 002, 790	39, 851, 600	3, 796, 378	13, 165, 200	1, 083, 940

COREA.

It is only during comparatively recent years that this country has been opened up to the commerce of the world, and in view of that fact it is not surprising that statistical data in the lines presented in this report are meager. Taking into consideration Eastern habits, it is remarkable that so much is available. The figures on trade which are presented are from the official volume, *Annual Trade Returns of Corea*, covering the period 1885 to 1890, inclusive, except for 1887. The volume for this year is not available. This publication is printed in England, and makes a very creditable presentation of the trade statistics of that country. The work is new, however, and the general details somewhat incomplete. A peculiarity of the statement is that in giving the imports it is specified that they are net imports. The production of barley must be quite large, as in 1890 the exportation amounts to 109,595 bushels of 48 pounds, and it is specifically declared that this is

an exportation of domestic produce. In the case of cotton no exports are given during the years 1885 and 1886, but in 1888, 45,000 pounds were shipped, and there is a heavy increase both in 1889 and 1890, the shipments in the latter year amounting to 905,867 pounds. During the same period the net imports of cotton are given at something more than 200,000 pounds per annum. If this statement is correct it indicates a gross importation of nearly 1,000,000 pounds per annum. The first trade report issued, that for 1885, in discussing the fact that on account of shipments which did not pass the custom-house the figures presented did not accurately show the full trade of the country, states that Corea produces cotton of a superior staple in considerable quantities. The crop is largely consumed in the country in the manufacture of a strong and excellent native homespun. Natives, however, declare that there is a considerable margin raised for exportation, but very little of it goes through the custom-house. That there is some other outlet for it is apparent from the fact that it is for sale in China and Japan, where it commands better price than the home-grown product.

Imports and exports.

COTTON AND FLOUR.

Year.	Cotton.				Flour—net imports.	
	Net imports.		Exports.		Pounds.	Value.
	Pounds.	Value.	Pounds.	Value.		
1885.....	146,533	\$16,279				
1886.....	51,600	4,176			163,856	\$4,439
1888.....	241,600	26,963	45,200	\$732	248,533	5,443
1889.....	191,463	21,136	584,400	13,760	190,930	4,022
1890.....	250,000	26,248	905,867	20,876	140,800	3,376

GRAIN AND PULSE.

Year.	Net imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.
1885.....	599,467	\$6,528	33,333	\$155
1886.....	1,181,333	12,753	15,732	76
1888.....	1,480,800	8,763	1,599,733	9,906
1889.....	3,252,800	19,624	4,327,600	26,959
1890.....	11,333	246	11,886,400	88,590

JAPAN.

For this country the figures for area and production are taken from the official volume, *Résumé Statistique de l'Empire du Japon*, No. 5, 1891. The trade statements are from *L'Annuaire Statistique de l'Empire du Japon* for each year.

The area devoted to wheat averages about 1,000,000 acres, although for the last year which is available, 1890, it was 1,121,936 acres. The

average yield per acre is a little more than 13 bushels, or quite close to the average of the United States. The foreign trade shows an excess of exports of wheat, but the figures presented indicate a gradual change of conditions, the imports increasing and the exports decreasing. In the statement of corn production the *Annuaire* for 1886 gives neither acreage nor production for that year, but in 1887, with an acreage which is about normal, the production is given of something more than double the average for the preceding six years. It is assumed that in this case the production for two years, 1886 and 1887, is incorrectly given as the production of 1887, and it is upon this assumption that the average which is presented in the general table, relative to corn in the early chapters of this report, is obtained. The production of barley in Japan has averaged in ten years something more than 32,000,000 bushels. During this period there has been a net exportation of this grain each year, except in 1890, when, on account of a deficient crop, there was a very considerable excess in imports. So large is this excess that in striking an average it gives Japan the appearance of being an importing country, when the facts apparently are the other way. Estimates for cotton production are not available for a later year than 1887, when it amounted to 189,655,344 pounds. Japan appears as an importing country during the whole period, but since 1887, the last year for which estimates of production were available, there has been a very strong increase in the net imports, arguing either a deficiency in the domestic supply or a very decided enlargement in the demands for fiber for consumption within the Empire. In the statement of flour it is impossible to separate wheat flour from that made from other grains. The figures therefore represent the imports and exports of flour of all kinds.

Production, imports, and exports.

WHEAT.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	1, 182, 295	22, 591, 061				
1881.....	895, 988	10, 438, 114				
1882.....	908, 803	12, 690, 786				
1883.....	918, 140	12, 205, 486		7	\$1, 175	890, 131
1884.....	959, 451	13, 956, 794	1, 493	611	324, 387	187, 367
1885.....	977, 012	12, 362, 833	529	317	434, 337	274, 590
1886.....	988, 266	16, 453, 287	686	528	303, 311	187, 173
1887.....	956, 822	15, 571, 308	2, 259	1, 165	168, 253	95, 770
1888.....	992, 385	15, 839, 729	23, 218	12, 034	277, 625	154, 935
1889.....	1, 068, 851	16, 491, 748	55, 400	29, 326	339, 335	184, 067
1890.....	1, 121, 936	12, 567, 922	81, 709	44, 445	146, 467	88, 991

Production, imports, and exports—Continued.

CORN AND OATS.

Year.	Corn.				Oats—imports.	
	Production.		Imports.		Bushels.	Value.
	Acres.	Bushels.	Bushels.	Value.		
1880	51,048	539,346				
1881	41,637	541,809				
1882	41,724	428,112				
1883	50,924	684,143	29	\$34	445	\$296
1884	51,715	582,261	2	9	487	339
1885	52,378	588,223	58	57	740	371
1886			32	19	900	622
1887	55,365	1,245,016	20	11	409	198
1888			5	14	362	213
1889			88	40	387	214
1890			110	120	828	609

RYE.

Year	Production.		Exports	
	Acres.	Bushels.	Bushels.	Value.
1880		870,634		
1881		1,213,631		
1882		1,218,859		
1883		1,221,407		
1884		1,227,584		
1885		1,290,409		
1886		1,328,868		
1887		1,409,567		
1888		1,435,533		
1889		1,434,170	112,886	\$37,515
1890		1,457,660		

BARLEY.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880	1,457,317	29,814,312				
1881	1,465,363	26,592,915				
1882	1,471,668	30,186,679				
1883	1,445,188	29,242,952	44	\$88	7,898	\$3,177
1884	1,454,164	30,718,042	39	68	6,784	3,485
1885	1,492,177	27,869,285	590	471	5,090	3,498
1886	1,573,411	38,593,133	435	225	3,472	2,008
1887	1,533,593	36,355,441	165	152	3,436	2,595
1888	1,545,734	36,178,861	57	101	21,772	6,803
1889	1,553,286	36,798,092	3,406	1,314	10,798	3,528
1890	1,590,801	27,732,953	111,180	42,506	366	299

POTATOES AND TOBACCO.

Year.	Potatoes.				Tobacco.			
	Production.		Exports.		Production.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Acres.	Pounds.	Pounds.	Value.
1880	23,610	1,191,680				33,813,982		
1881	20,347	1,369,211				38,860,445		
1882	18,613	1,041,444				38,334,755		
1883	23,312	1,088,952	80,734	\$14,206		35,961,237	1,581,512	\$185,701
1884	20,056	1,240,207	98,532	28,972		37,472,556	3,436,231	207,957
1885	20,248	1,390,250	112,863	27,398		46,652,845	6,139,575	334,008
1886	24,755	1,479,101	106,055	19,825	58,069	49,239,767	1,964,404	102,557
1887	40,420	3,918,228	83,028	13,174	53,204	50,256,850	1,132,256	55,200
1888			94,949	14,342			1,006,867	61,044
1889			108,361	22,658			2,613,019	138,836
1890			80,363	25,427			1,710,555	90,367

Production, imports, and exports—Continued.

BUTTER AND CHEESE.

Year.	Butter—imports.		Cheese—imports.	
	Pounds.	Value.	Pounds.	Value.
1883.....	78,947	\$20,618	25,944	\$3,918
1884.....	169,960	36,833	25,075	3,572
1885.....	195,113	40,829	47,515	5,864
1886.....	154,176	32,983	52,643	6,047
1887.....	174,656	36,342	51,231	5,964
1888.....	233,232	59,681	59,316	8,327
1889.....	241,036	53,870	49,696	6,758
1890.....	213,200	43,696	52,137	6,724

COTTON.

Year.	Production.		Imports.		Exports.	
	Acres.	Pounds.	Pounds.	Value.	Pounds.	Value.
1880.....		118,221,475				
1881.....		173,473,333				
1882.....		117,949,992				
1883.....		119,931,149	4,040,312	\$256,060	384,467	\$31,768
1884.....		114,380,994	6,056,696	487,737	95,691	8,571
1885.....		133,706,813	12,851,224	694,184	1,120	130
1886.....	201,970	133,805,241	8,847,709	563,020	249	28
1887.....	241,318	189,655,344	14,230,301	716,551	637	63
1888.....			32,101,968	1,672,992	953	125
1889.....			85,951,153	4,160,927		
1890.....			69,522,336	4,034,595	409	43

WOOL AND FLOUR.

Year.	Wool.				Flour of all kinds.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1883.....	364,224	\$78,704	7,411	\$1,109	1,936,521	\$48,730	2,749,400	\$49,057
1884.....	204,921	36,949	24,279	2,755	2,016,591	47,000	1,571,611	26,620
1885.....	340,317	64,680	27,727	3,991	4,180,360	87,581	1,806,193	31,193
1886.....	667,119	121,502	23,105	2,940	4,274,869	80,317	1,425,813	24,227
1887.....	919,023	148,881	32,396	3,862	4,038,823	75,416	1,807,084	11,746
1888.....	1,155,152	226,178	14,705	2,626	4,913,916	102,280	1,439,288	19,851
1889.....	878,425	221,730	6,299	1,848	6,070,056	141,683	1,925,956	27,438
1890.....	1,156,869	278,175	2,476	1,381	8,944,972	172,649	1,762,265	32,849

BRITISH POSSESSIONS.

The British Possessions in Asia, for which data are available outside of British India, which is presented elsewhere, include Ceylon, Penang, and Malacca. For each of these the figures, both for trade and production, are from the British official publication, *Colonial and Other Possessions of the United Kingdom*, Nos. 17, 18, and 19. It must be remembered that this publication is merely a synopsis of the statistics of certain colonies, and that only the most important items are given in detail. It follows, therefore, that a blank in any given year does not indicate lack of production, or no trade, but rather that data for that year are not presented.

CEYLON.

The acreage devoted to the cultivation of tobacco in this colony shows a steady and considerable increase from year to year, advancing from less than 10,000 in 1880, to nearly 20,000 in 1887, the last year for which statistics were available. Statistics of production only cover the years 1880 to 1884, and during that period the average production was 5,711,558 pounds. The statement of tobacco exports, which includes only domestic leaf tobacco, is compiled from the *Statistical Abstract for the Colonial and Other Possessions*, which is a brief synopsis of the complete volume already referred to. From this statement it appears that from 1882 to 1890 the average exportation amounted to 5,529,000 pounds, or within 200,000 pounds a year of the estimated production. In the statement of cotton production the acreage given for 1884 is evidently an error, but it is presented as it appears in the official report. The imports of wheat flour for the three years, 1885 to 1887, inclusive, the only years for which data are available, averaged nearly 4,000,000 pounds per annum.

Production, imports, and exports.

Year.	Tobacco.				Cotton—production.		Wheat flour—im-ports.	
	Production.		Exports.		Acres.	Pounds.	Pounds.	Value.
	Acres.	Pounds.	Pounds.	Value.				
1880.....	9,957	4,506,827	.....	.....	173	15,121	.....	.....
1881.....	10,896	6,429,006	.....	.....	179	17,221	.....	.....
1882.....	11,135	5,297,774	5,430,096	\$532,402	215	13,901	.....	.....
1883.....	10,260	5,202,305	4,306,176	422,167	176	16,583	.....	.....
1884.....	16,552	7,121,875	6,015,072	579,959	1,084	15,425	.....	.....
1885.....	15,936	.....	6,275,360	477,728	221	.....	3,777,088	\$184,633
1886.....	12,472	.....	5,145,616	393,771	139	.....	3,654,112	178,620
1887.....	19,442	.....	4,026,960	245,161	126	.....	4,488,512	207,218
1888.....	.....	.....	6,475,392	432,267	.....	.....	.....	.....
1889.....	.....	.....	5,867,904	398,591	.....	.....	.....	.....
1890.....	.....	.....	6,223,392	472,445	.....	.....	.....	.....

PENANG AND MALACCA.

The tobacco trade of the colony is almost equally balanced between imports and exports, the average excess of imports amounting to only 400,000 pounds per annum. It is not definitely stated in the official volume that this is entirely leaf tobacco, and in fact the indications are that it includes also manufactured tobacco, but as by far the larger part is drawn from the Dutch Possessions, it may be safely assumed that the greater portion of it represents raw product. The imports and exports of cotton are also closely balanced, although the data for exports are given only for three years. This is raw product entirely, and practically all comes from Burmah. The average importation of wheat flour is a little more than 6,500,000 pounds per annum, about one-half of which is intended for domestic consumption.

For the colony of Malacca the only data available are the imports of tobacco for five years. From this it appears that the imports during five years presented amounted to an average of 216,000 pounds per annum.

Imports and exports.

TOBACCO.

Year.	Penang.				Malacca—imports.	
	Imports.		Exports.		Pounds.	Value.
	Pounds.	Value.	Pounds.	Value.		
1880.....	2,494,688	\$538,710	4,512,816	\$1,290,250	158,368	\$50,375
1881.....	2,681,952	494,657	1,475,488	397,968	252,784	39,232
1882.....	3,136,933	584,934	5,706,533	1,709,939	.....	.....
1883.....	6,495,333	1,625,085	7,872,267	2,308,637	.....	.....
1884.....	7,598,667	1,795,491	6,979,067	1,839,163	.....	.....
1885.....	10,303,733	2,382,465	9,571,867	3,503,422	172,592	25,347
1886.....	11,338,800	3,813,933	8,327,600	2,689,303	227,584	29,588
1887.....	7,237,600	1,486,439	3,726,533	894,029	270,032	35,535

COTTON, WHEAT, AND FLOUR.

Year.	Cotton (Penang).				Wheat and flour (Penang).			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	1,162,224	\$64,559	.....	.....	.....	.....	.....	.....
1881.....	217,728	9,143	.....	.....	.....	.....	.....	.....
1882.....	1,148,800	83,533	1,139,867	\$87,480	.....	.....	.....	.....
1883.....	2,298,533	174,381	2,238,000	167,361	.....	.....	.....	.....
1884.....	.....	357,649	4,193,867	367,013	.....	.....	.....	.....
1885.....	4,443,733	439,753	.....	.....	5,990,800	\$174,464	2,523,333	\$89,682
1886.....	1,464,533	103,433	.....	.....	7,005,067	182,444	2,984,933	81,916
1887.....	1,389,200	72,277	.....	.....	6,591,333	195,507	3,384,933	91,366

DUTCH POSSESSIONS.

The Dutch Possessions in Asia for which data are available include Java, Madura, and Sumatra. Data of production and trade, which are presented below, are drawn from the official volume *Jaarcijfers over 1889 en vorige Jaren, No. 9, 2e Afllevering*. The figures presented in this report are not in as clear a form as could be desired, in some items each colony being given separately, and in others, colonies being classed together without any regard to uniformity. The area devoted to corn in Java and Madura together shows a regular increase during the period presented, and the average acreage for the period is 1,445,000. The acreage under tobacco in the same colonies shows a considerable, but not regular, increase from year to year, the average for the period 1882 to 1889 being 178,000 acres. More fluctuation is apparent in the acreage of cotton in these two colonies, ranging from 19,000 in 1882 to 53,000 in 1888, and averaging for the whole time 36,000 acres. In the production of tobacco data for Java and Sumatra separately are given, but there is no statement of the production of Madura. In Java the increase in production is not especially large, and the total crop fluctuates considerably from year to year. In the first year of the period

presented, 1880, it amounted to 17,000,000 pounds, and in the last year, 1889, to 21,000,000 pounds, and the average for the whole period is only a little more than 18,000,000. In the case of Sumatra, however, a different showing is made. The production has increased with rapid strides during the period under consideration, advancing from 12,000,000 pounds in 1880 to more than 37,000,000 in 1889. It is during this period that the competition of Sumatra leaf with the domestic tobacco in the markets of the United States has been felt.

The statements of trade in tobacco are also conflicting and unsatisfactory. No separate statement of the exports from Sumatra is given in the official publication, but the total exportations from the Dutch East Indies is presented, and in connection with this there is a further statement of the amount exported each year from Java and Madura. The difference between these statements will represent the shipments from Sumatra, and such other small possessions as may be contributors, but practically it will represent Sumatra alone, as there are no other important sources of supply. As before stated, the acreage of tobacco in Java and Madura is presented in one statement. The average production in Java is given at 18,000,000 pounds, while the average shipments from Java and Madura together are given at 25,000,000 pounds. This would leave something more than 7,000,000 pounds as Madura's contribution to the trade. In order to show the direction of the tobacco trade of Sumatra a statement has been prepared which presents the annual shipments of tobacco from that colony to the Netherlands. The figures which are given are not copied direct, but are the results of compilation from data which are furnished by the official report already referred to. From this it will be seen that although the average shipments of tobacco from Sumatra during the period presented are less than 20,700,000 pounds, the average shipments to the mother country are 20,184,000 pounds.

The imports of wheat, flour, butter, and cheese into Java, which are shown are specifically stated as being imported for consumption. Perhaps the most marked feature of the trade is the falling off of importation of wheat in the grain and the increase in the importation of flour, which includes flour made from different cereals.

JAVA AND MADURA.

Acreage of corn and cotton, and acreage and exports of tobacco.

Year.	Corn.	Cotton.	Tobacco.	
			Area.	Exports.
	<i>Acres.</i>	<i>Acres.</i>	<i>Acres.</i>	<i>Pounds.</i>
1882.....	919, 149	19, 273	120, 241	33, 018, 294
1883.....	981, 841	34, 210	136, 336	9, 424, 665
1884.....	1, 587, 300	39, 234	164, 113	19, 841, 400
1885.....	1, 504, 431	33, 868	160, 874	23, 086, 571
1886.....	1, 681, 701	38, 690	195, 328	21, 285, 413
1887.....	1, 608, 143	42, 746	183, 024	24, 892, 139
1888.....	1, 559, 731	52, 875	269, 678	26, 893, 915
1889.....	1, 714, 694	28, 630	194, 636	33, 042, 545
1890.....				35, 022, 276

JAVA.

Production of tobacco, and imports, for consumption, of wheat, flour, butter, and cheese.

Years.	Tobacco.	Wheat.	Flour.	Butter.	Cheese.
	<i>Pounds.</i>	<i>Bushels.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Dollars.</i>
1880.....	17,481,206	15,663	9,301,207	687,835	35,376
1881.....	21,871,502	15,550	10,456,418	914,909	46,632
1882.....	11,290,094	11,435	8,538,416	716,495	37,788
1883.....	12,545,768	6,044	10,227,139	599,651	36,582
1884.....	17,871,649	2,838	10,418,940	992,070	45,024
1885.....	17,088,229	823	10,961,271	522,490	38,592
1886.....	16,957,225	2,979	8,688,329	601,856	40,602
1887.....	19,624,877	3,575	10,293,277	608,470	45,825
1888.....	27,682,779	397	8,635,418	540,127	39,396
1889.....	21,172,412	397	10,002,270	465,171	49,446
1890.....	.....	114	11,157,481	462,966	45,828

SUMATRA.

Production and exports of tobacco.

Year.	Production.	Exports to the Netherlands.	
	<i>Pounds.</i>	<i>Pounds.</i>	<i>Value.</i>
1880.....	12,028,807	11,023,000	\$4,542,600
1881.....	15,606,310	13,647,000	5,748,600
1882.....	18,271,185	16,897,000	8,442,000
1883.....	17,124,601	15,747,000	7,638,000
1884.....	24,548,450	21,286,000	11,256,000
1885.....	25,157,449	21,108,000	10,854,000
1886.....	25,893,051	23,120,000	12,984,600
1887.....	27,400,574	23,686,000	10,452,000
1888.....	36,704,341	28,198,000	13,266,000
1889.....	37,330,576	27,128,000	14,592,600

Total exports of tobacco, Dutch East Indies.

Year.	Exports.	Year.	Exports.
	<i>Pounds.</i>		<i>Pounds.</i>
1882.....	47,125,530	1886.....	43,271,889
1883.....	27,486,953	1887.....	50,311,177
1884.....	35,804,909	1888.....	52,786,942
1885.....	44,647,559	1889.....	65,445,756

FRENCH POSSESSIONS.

The French Possessions in Asia for which statistics are presented include Annam, Cambodia, Cochin-china, India, and Tonkin. In all cases the figures are taken from the official French publication, *Statistiques Coloniales*, for each year. The compilation of the desired data from these annual volumes is very difficult, and the results not entirely satisfactory, on account of the fact that typographical and other errors, sufficiently frequent to greatly vitiate the data, are too often found. Where the error is obvious the course followed has been to make the necessary correction, but it sometimes happens that while the knowledge that something is wrong is certain there are no means of righting

it. For this reason, in cases where there is no question as to the inaccuracy, data for the year in question are omitted, although there are figures in the original report. The whole is presented simply in the belief that it is as fair a compilation as possible from the reports in question.

In all these colonies, except India, the monetary unit is the piaster. The Director of the Mint has stated that the value of this coin in 1891 was 68.3 cents. In the reductions which have been made it has been taken at a uniform value of 68 cents, as its actual value is not determined officially each year.

ANNAM.

The figures presented for this colony cover only the two years 1888 and 1889. The value in the trade for 1888 is omitted in each case, because of evident errors in the original publication.

Imports of cheese, butter, flour, and potatoes.

Year.	Cheese.		Butter.		Flour.		Potatoes.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1888.....	357	.....	829	.....	.....	.....	.....	.....
1889.....	1,497	\$250	1,185	\$325	62,758	\$1,587	3,195	\$2,046

CAMBODIA.

Trade in tobacco, cotton, and butter.

Year.	Tobacco.			Butter—imports.		Cotton—exports.	
	Imports.	Exports.		Pounds.	Value.	Pounds.	Value.
	Pounds.	Pounds.	Value.				
1887.....	.....	1,961,109	\$129,937	476	\$83	5,678,933	\$107,765
1888.....	.....	.....	.....	1,085	96	.....	.....
1889.....	49,934	.....	.....	2,888	447	2,818,133	63,674

COCHIN-CHINA.

In the case of corn there appears to be an increase by more than 50 per cent in the acreage during the period presented, with a corresponding increase in production. The average production for the years 1885 to 1889, inclusive, is 248,000 bushels. In the original report the years 1883 and 1884 are recorded as having produced more than 1,000,000 bushels each year on an acreage only one-half as great as that in 1885. The importance of the tobacco crop appears to be declining, acreage having fallen off from 11,861 in 1884 to less than 10,000 in 1889.

Production, imports and exports.

CORN, OATS, AND POTATOES.

Year.	Corn—production.		Oats—imports.		Potatoes.			
	Acres.	Bushels.	Bushels.	Value.	Production.		Imports.	
					Acres.	Bushels.	Bushels.	Value.
1885.....	8,582	175,411						
1886.....	10,240	209,303						
1887.....	11,018	303,658					5,715	\$5,209
1888.....	10,210	246,216	359	\$134	2,192	69,419	22,365	9,869
1889.....	13,245	304,180	134	32	8,401	274,840	23,465	

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1885.....				\$167				
1886.....				1,135				
1887.....				1,323				
1888.....	95,567	\$18,476	573		71,255	\$12,587	243	\$229
1889.....	76,683	8,649			73,475	15,122	364	407

COTTON, TOBACCO, AND FLOUR.

Year.	Cotton.			Tobacco.		Flour.	
	Production.		Exports, value.	Production.		Imports.	
	Acres.	Pounds.		Acres.	Pounds.	Pounds.	Value.
1882.....	5,268						
1883.....	1,085						
1884.....	1,384						
1885.....	1,164	219,095	\$102,003	11,861	13,934	6,650,941	
1886.....	810	151,853	18,133	7,816	3,695,769		
1887.....	971	181,946	66,952	11,292	5,390,137		
1888.....	1,522	286,545	40,735	9,432	4,502,003	3,062,136	\$292,900
1889.....	1,423	267,938	70,652	9,842	4,697,793	514,410	56,152

INDIA.

Production, imports and exports.

WHEAT AND TOBACCO.

Year.	Wheat—imports.		Tobacco.			
	Bushels.	Value.	Production.		Imports (value).	Exports (value).
			Acres.	Pounds.		
1882.....		\$1,945	15	4,054	\$42	\$3,719
1883.....		2,485	12	3,620	28	7,943
1884.....		2,668	15	3,944		8,019
1885.....		2,640	17	2,454	2,700	3,313
1886.....		502	12	3,433	1,448	357
1887.....	854	897	10	4,339	2,368	826
1888.....		1,989	12	3,086	1,469	1,081
1889.....		1,007	10	1,142	1,193	384

Production, imports, and exports—Continued.

BUTTER, CHEESE, COTTON, AND FLOUR.

Year.	Butter— exports (value).	Cheese.			Cotton.			Flour— imports (value).
		Imports.		Exports (value).	Production.		Imports (value).	
		Pounds.	Value.		Acres.	Pounds.		
1882.....	\$13,396	4,312	\$660	.....	62	4,092	\$540	\$139
1883.....	13,108	5,853	897	.....	99	5,154	950	472
1884.....	12,816	.....	.....	.....	42	4,065	15	.....
1885.....	718	.....	101	\$145	32	611	34,186	287
1886.....	8,544	.....	255	39	15	602	265	.....
1887.....	10,778	.....	724	39	7	388	320	381
1888.....	7,903	.....	1,089	109	17	642	8	106
1889.....	10,494	.....	129	8	10	412	35,287	1,104

TONKIN.

Imports of corn, barley, oats, potatoes, tobacco, butter, and cheese.

Year.	Corn.	Barley.	Oats.	Potatoes.	Tobacco.	Butter.	Cheese.
	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>
1888.....	7	20	86	26,726	21,726	70,373	60,108
1889.....	6	141	109	23,088	14,522	64,255	73,797

Imports and exports of cotton, wheat, and flour.

Year.	Cotton.		Wheat— imports.	Flour— imports.
	Imports.	Exports.		
	<i>Pounds.</i>	<i>Pounds.</i>	<i>Bushels.</i>	<i>Pounds.</i>
1888.....	.....	228,926	360	6,393,040
1889.....	24,793	265,370	459	7,902,417

AFRICA.

EGYPT.

Continuous estimates of production are not available for this country, and the official statements relative to acreage devoted to the various crops are somewhat fragmentary. The trade statements are from official sources, being taken from the volumes of *Le Commerce de l'Égypte* for the years in question.

In 1887 an official report, based on replies to a circular which was sent to the *Sheiks el beled*, furnishes some data relative to the crop areas, which is briefly summarized as follows:

	Acres.
Wheat	1, 288, 386
Clover.....	977, 083
Cotton	898, 503
Corn	709, 881
Barley.....	540, 176
Rice.....	155, 421
Tobacco	12, 101

The cereals and other food crops for man and beast occupy by far the larger part of the total area cropped, but the principal market crops are cotton and sugar cane. In 1891 Consul-General Anderson furnished the Department of Agriculture with a statement of the cotton acreage of Egypt for that year, as prepared by the Alexandria General Produce Association. The area was 831,241 acres, of which 779,860 acres were located in lower Egypt.

Potatoes and tobacco are the only arable crops included in this investigation which are not produced in sufficient supply for domestic requirements in Egypt. In the case of tobacco, the imports given for 1891 are smaller than the average, and there are indications in the report from which the figures were derived that the statement will be subject to some little future revision. In the statement of flour, the imports include, besides wheat flour, corn meal as well, and in the exports both flour and bran are included.

Imports and exports.

WHEAT, CORN, AND BARLEY.

Year.	Wheat.				Corn—exports.		Barley—exports.	
	Imports.		Exports.		Bushels.	Value.	Bushels.	Value.
	Bushels.	Value.	Bushels.	Value.				
1884.....	362,706	\$309,279	3,508,784	\$2,170,199	2,311,785	\$1,154,151	804,641	\$341,457
1885.....	891,361	719,651	1,047,083	788,311	282,462	135,201	139,736	50,424
1886.....	1,129,819	1,013,864	452,922	390,062	12,843	9,214	1,623	875
1887.....	356,577	302,146	1,167,501	839,336	71,357	39,673	201,667	86,542
1888.....	249,728	201,912	2,350,018	1,508,421	1,039,495	492,644	223,340	86,088
1889.....	924,605	612,537	1,178,788	818,605	19,885	13,193	193,012	82,642
1890.....	1,160,957	797,840	1,545,541	1,106,767	227,102	115,948	456,667	173,368
1891.....	210,577	207,047	3,460,116	2,537,064	4,077,879	2,145,984	1,416,247	611,963

POTATOES, TOBACCO, BUTTER, AND CHEESE.

Year.	Imports.							
	Potatoes.		Tobacco.		Butter.		Cheese.	
	Bushels.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1884.....	204,313	\$128,039	6,472,102	\$1,424,844	1,748,486	\$301,538	3,181,000	\$315,368
1885.....	241,726	155,630	6,142,999	1,211,341	1,766,509	277,584	3,560,279	329,965
1886.....	251,014	153,569	5,751,711	1,217,748	1,821,035	284,588	3,653,988	356,647
1887.....	207,416	126,368	5,483,277	1,155,505	1,802,889	302,892	3,427,488	343,632
1888.....	233,924	145,211	6,024,656	1,173,206	2,402,269	374,487	3,842,424	345,224
1889.....	201,761	126,724	6,268,209	1,195,089	1,530,453	209,385	3,580,281	302,937
1890.....	205,114	127,648	10,969,719	2,200,683	1,233,908	203,286	3,324,394	298,938
1891.....	191,775	125,656	2,837,146	666,435	1,488,396	218,762	3,469,874	323,302

COTTON, FLOUR, AND FLOUR AND BRAN.

Year.	Cotton—exports.		Flour—imports.		Flour and bran—exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1884.....	301,485,044	\$40,719,193	10,700,586	\$310,322	8,443,940	\$114,954
1885.....	312,789,960	38,092,730	22,484,301	615,972	2,438,799	33,316
1886.....	298,270,945	35,198,174	32,633,166	752,567	2,296,865	23,359
1887.....	300,841,871	37,282,909	21,283,124	504,715	12,391,356	177,073
1888.....	264,040,837	33,727,626	19,469,248	434,139	17,807,468	232,242
1889.....	314,494,854	42,251,360	18,916,901	473,119	3,378,792	28,066
1890.....	326,463,837	40,889,613	18,849,892	467,964	4,897,805	46,217
1891.....	418,178,846	44,431,767	15,501,208	412,938	10,013,960	136,788

BRITISH POSSESSIONS.

The data of production and trade in the British colonies and possessions in Africa are drawn from the official British publication, *Colonial and Other Possessions of the United Kingdom*, parts 17, 18, and 19, covering the years 1880 to 1887, supplemented by statistics for other years as far as possible, taken from the abstract of this larger publication, which is issued each year. It should be understood in all cases that although imports may be given with no exports, or exports with no imports, it must not be assumed that there is not a trade both ways. The authority from which the figures are derived professes only to give the principal items making up the foreign trade of each colony, and these items in exports and imports are not necessarily the same.

CAPE OF GOOD HOPE.

Imports and exports.

WHEAT, CORN, OATS, AND BARLEY.

Year.	Imports.							
	Wheat.		Corn.		Oats.		Barley.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1880.....	658,473	\$757,271	345,282	\$286,145	61,492	\$32,080	51,819	\$39,545
1881.....	695,710	777,097	502,550	369,260	642,033	259,720	225,444	168,444
1882.....	949,149	1,170,106	155,090	151,918	15,894	8,356	67,571	49,556
1883.....	830,022	1,140,299	279,328	193,341	91,767	41,706	56,292	34,742
1884.....	717,439	833,408	219,134	164,001	830	560	464	467
1885.....	873,197	872,276	345,954	239,067	57,946	29,311	2,051	857
1886.....	367,427	386,551	47,256	24,936	669	599	16	19
1887.....	325,978	353,215	8,096	4,779	1,369	1,256	51	73
1888.....	137,303	130,943	510	263	403	346	61	88
1889.....	94,578	117,015	19,102	8,108	3,962	3,392	33	68
1890.....	991,323	1,029,610	38,022	20,829	13,955	7,937	40	73

BUTTER, CHEESE, WOOL, AND FLOUR.

Year.	Butter—imports.		Cheese—imports.		Wool—exports.		Flour—imports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	1,035,880	\$288,948	1,123,536	\$188,849	42,467,962	\$11,822,480	19,371,835	\$558,548
1881.....	1,494,584	415,258	1,290,629	222,457	42,770,244	10,618,396	31,844,137	917,759
1882.....	1,087,696	358,535	1,326,954	214,725	41,689,119	10,035,599	20,562,867	663,319
1883.....	1,424,742	475,404	1,090,440	184,236	38,029,495	9,697,694	33,047,024	1,049,271
1884.....	956,280	310,823	1,020,190	166,994	37,270,615	8,492,982	25,831,667	679,636
1885.....	1,084,393	345,020	.....	.....	34,432,562	6,940,155	14,561,792	322,844
1886.....	530,735	153,144	.....	.....	47,454,153	7,691,172	662,928	16,493
1887.....	427,685	118,241	.....	.....	44,758,295	8,151,052	201,040	5,806
1888.....	.....	.....	.....	.....	66,353,699	10,616,318	2,441,264	47,701
1889.....	.....	.....	.....	.....	68,107,541	10,956,316	911,232	28,396
1890.....	.....	.....	.....	.....	65,653,917	10,687,029	3,822,448	98,298

GOLD COAST.

In the following statement of tobacco imported into this colony it is specified in the official publication that for the years 1880 to 1882, inclusive, the trade is in unmanufactured tobacco, and the uniformity of the figures in later years indicates that the same distinction has been observed in the record for the whole period:

Imports of tobacco.

Year.	Pounds.	Value.	Year.	Pounds.	Value.
1880.....	279,701	\$23,281	1884.....	506,359	\$77,849
1881.....	482,491	73,912	1886.....	481,899	69,095
1882.....	536,473	79,339	1887.....	468,257	62,700
1883.....	420,920	62,345			

LAGOS.

Exports of cotton.

Year.	Pounds.	Value.	Year.	Pounds.	Value.
1883.....	415, 254	\$50, 704	1887.....	121, 735	10, 186
1884.....	530, 414	55, 741	1888.....	231, 484	19, 588
1885.....	278, 850	28, 211	1889.....	482, 950	39, 044
1886.....	96, 980	8, 823	1890.....	358, 830	29, 506

MAURITIUS.

Imports of wheat, oats, and wheat flour.

Year.	Wheat.		Oats.		Wheat flour.	
	Bushels.	Value.	Bushels.	Value.	Pounds.	Value.
1880.....		\$121, 813	325, 194	\$228, 151	10, 474, 211	\$277, 206
1881.....		166, 945	318, 312	206, 559	10, 847, 146	280, 544
1882.....		175, 418	230, 531	162, 901	6, 351, 428	242, 142
1883.....		151, 825	680, 524	329, 190	8, 770, 670	356, 349
1884.....		149, 630	333, 713	211, 605	9, 089, 923	349, 984
1885.....		61, 638	276, 808	173, 654	11, 082, 961	447, 565
1886.....		107, 754	334, 956	206, 811	13, 091, 671	456, 560
1887.....	68, 654	47, 687	219, 309	136, 237	12, 201, 451	441, 954
1888.....	16, 819	1, 709				
1889.....	61, 942	5, 081				
1890.....	17, 203	2, 185				

NATAL.

In this colony corn appears to be the principal arable crop, the average production each year amounting to nearly 3,000,000 bushels from the period 1880 to 1887, and it forms a considerable item in the export trade, shipments amounting to more than 100,000 bushels per annum, while the imports, if there are any, are too insignificant to be recorded. Oats are apparently grown rather for hay than for grain, the average area of 7,127 acres producing 10,120 tons of oat hay. The most important agricultural product in the export trade is wool, and the figures presented show that the shipments have increased very materially during the past decade. In 1881 the total shipments amounted to 12,578,781 pounds, while in 1889 they had increased to 29,489,716 pounds. The average for the period 1881 to 1890 inclusive is nearly 21,000,000 pounds. The statement of flour imported includes not only flour, but meal and bran of wheat, it being impossible to separate these items.

Production, imports, and exports.

WHEAT, CORN, AND OATS (HAY).

Year.	Wheat—production.		Corn—production.		Corn—exports.		Oats (hay)—production.	
	Acres.	Bushels.	Acres.	Bushels.	Bushels.	Value.	Acres.	Tons.
1880.....	519	5, 289	200, 546	1, 838, 134	26, 572	\$21, 534	6, 612	14, 663
1881.....	529	8, 443	198, 385	2, 635, 866	314	380	4, 172	4, 792
1882.....	615	7, 955	210, 653	2, 634, 965	14, 293	14, 171	4, 707	10, 427
1883.....	2, 318	12, 376	134, 620	3, 159, 309	167, 874	94, 853	7, 836	8, 500
1884.....	983	12, 177	214, 338	2, 864, 790	117, 387	87, 427	8, 029	11, 915
1885.....	923	11, 297	226, 680	2, 983, 842	72, 442	63, 401	8, 642	9, 009
1886.....	915	12, 391	248, 987	3, 551, 406	218, 804	68, 296	8, 651	11, 764
1887.....	965	11, 815	206, 368	2, 566, 628	189, 354	67, 766	8, 363	9, 892

Production, imports, and exports—Continued.

POTATOES, TOBACCO, AND BUTTER.

Years.	Potatoes—production.		Tobacco—production.		Butter—imports.	
	Acres.	Bushels.	Acres.	Pounds.	Pounds.	Value.
1880.....	17, 015	430, 106	425	277, 522	.....	.....
1881.....	1, 726	98, 988	309	250, 543	.....	.....
1882.....	2, 180	111, 419	296	202, 296	240, 128	\$83, 431
1883.....	3, 123	113, 988	1, 885	385, 043	226, 016	69, 479
1884.....	2, 986	113, 102	759	355, 582	140, 112	45, 867
1885.....	3, 662	108, 700	554	251, 197	.....	.....
1886.....	3, 432	119, 960	319	147, 640	.....	.....
1887.....	3, 436	210, 940	332	137, 044	.....	.....

WOOL, AND WHEAT FLOUR.

Years.	Wool—exports.		Wheat flour—imports.	
	Pounds.	Value.	Pounds.	Value.
1880.....	15, 283, 049	\$2, 575, 941	9, 818, 424	\$266, 125
1881.....	12, 578, 781	2, 194, 490	21, 433, 188	618, 634
1882.....	14, 056, 126	2, 342, 972	8, 906, 632	278, 875
1883.....	15, 826, 915	2, 526, 497	17, 512, 796	547, 194
1884.....	17, 330, 981	2, 547, 014	12, 393, 864	349, 196
1885.....	17, 906, 041	2, 297, 679	15, 627, 783	343, 974
1886.....	21, 750, 863	2, 593, 674	11, 447, 640	283, 843
1887.....	22, 250, 834	2, 925, 599	15, 723, 784	372, 326
1888.....	28, 982, 247	3, 629, 188	12, 249, 216	264, 358
1889.....	29, 489, 716	3, 660, 494	17, 012, 240	477, 243
1890.....	26, 780, 221	3, 528, 787	30, 493, 344	710, 869

SIERRA LEONE.

The only item considered in the present investigation, which is recorded in the trade of this colony, is tobacco. The imports entered for domestic consumption, during the period 1880 to 1887, averaged 1,319,000 pounds, while there was an exportation of 442,000 pounds. It is specifically stated that this is unmanufactured tobacco.

Imports and exports of tobacco.

Years.	Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.
1880.....	1, 675, 071	\$222, 842	334, 491	\$43, 073
1881.....	962, 572	116, 266	261, 783	33, 194
1882.....	1, 480, 883	176, 581	241, 520	28, 527
1883.....	1, 289, 366	157, 144	738, 799	85, 782
1884.....	1, 840, 109	189, 127	475, 000	61, 600
1885.....	1, 026, 806	120, 728	363, 393	47, 760
1886.....	1, 123, 202	140, 510	496, 018	60, 787
1887.....	1, 151, 650	167, 383	627, 046	78, 078

FRENCH POSSESSIONS.

The data presented for the French Possessions in Africa is drawn from the official publication, *Statistiques Coloniales*, for each year. The remarks which are made relative to the accuracy of the French statistics, in the introduction to the data relative to French Possessions in Asia, apply with equal force to the figures presented below:

GABON.

Imports and exports.

ALL CEREALS AND POTATOES.

Year.	All cereals.		Potatoes.			
	Imports (value).	Exports (value).	Imports.		Exports.	
			Bushels.	Value.	Bushels.	Value.
1883.....			11,633	\$2,718		
1884.....			549	1,154	4	\$9
1885.....	\$18,037	\$328	978	1,028	87	574
1886.....	11,350	72	1,008	1,058	1	1
1887.....	23,797	327	1,735	1,768		
1888.....	42,199	116	1,430	1,502		
1889.....	33,783	297	2,130	2,120	11	11

TOBACCO, BUTTER, AND CHEESE.

Years.	Tobacco.				Butter—imports.		Cheese—imports.	
	Imports.		Exports.		Pounds.	Value.	Pounds.	Value.
	Pounds.	Value.	Pounds.	Value.				
1883.....	121,149	\$10,606					1,823	\$775
1884.....	124,216	10,874	15,428	\$1,351			1,649	577
1885.....	58,221	6,371	165	3	8,827	\$3,835	5,474	1,438
1886.....	142,768	14,997			6,356	2,780	6,931	1,820
1887.....	139,024	14,605	8,805	925	9,037	3,956	10,077	2,589
1888.....	127,197	13,362	7,053	741	12,390	5,423	9,899	2,605
1889.....	96,919	10,182	5,924	622	8,439	3,694	12,564	3,300

MAYOTTE.

The exports of cotton from this colony are given in bales, and no equivalent in pounds is at hand. The unsatisfactory character of the data may be judged by an examination of the figures of quantity and value in the statement of exports of this commodity.

Production, imports, and exports.

Year.	Corn—production (bushels).	Potatoes—production (bushels).	Tobacco—production (pounds).	Flour—imports.		Cotton—exports.	
				Pounds.	Value.	Bales.	Value.
1885.....	1,069	985	10,512				
1886.....	2,677	1,323	12,346	11,868	\$650	15	\$869
1887.....	4,330	2,352	4,464			8	31
1888.....	4,966	1,777	4,749	11,868	204	15	290
1889.....	5,197	1,454	5,659	37,632	706	4	290

NOSSI-BÉ.

Production and imports.

Year.	Corn— Production.	Potatoes.			Tobacco— Production.	Butter—imports.	
		Production.	Imports.			Pounds.	Value.
			Bushels.	Value.			
	<i>Bushels.</i>	<i>Bushels.</i>			<i>Pounds.</i>		
1883						2,260	\$396
1884	184,812				1,993		
1885	206,230	485			6,385		
1886	69,093	1,323	28	\$43	12,346	50,254	5,656
1887	90,091		199	190	882	8,891	1,950
1889	59,588	140	165	433	10,351	8,045	1,891

RÉUNION.

The importation of wheat into this colony from 1882 to 1889 averaged 57,000 bushels per annum, but the imports were much heavier in the earlier than in the later years of the period. According to the figures of quantity and value in this trade presented, the average cost per bushel of imported wheat was nearly \$2. If there be an error in these figures it is impossible to determine whether it is in statement of quantity or of value. The same high value per unit of quantity is apparent in the trade in most of the other products presented. In tobacco the average value appears to be nearly 40 cents per pound in imports, and more than 30 cents in exports. In the flour trade the balance is on the side of importations, the average being about 1,000,000 pounds per annum, with a strong tendency toward an increase of imports during the latter portion of the period.

Imports and exports.

WHEAT AND CORN.

Year.	Wheat.				Corn.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1882	81,762	\$143,157						
1883	98,830	173,040						
1884	67,636	118,422			1,008	\$741	1,037	\$763
1885	35,775	62,637			14,877	10,940	587	431
1886	76,665	120,808	165	\$261	1,071	787	1,602	1,178
1887	46,572	73,388	27,252	42,944	599	556	21	15
1888	23,782	37,476	2,187	3,446	20,731	15,245	1,307	641
1889	27,850	42,725	447	704			1,540	1,132

Imports and exports—Continued.

POTATOES AND TOBACCO.

Year.	Potatoes—exports.		Tobacco.			
			Imports.		Exports.	
	Bushels.	Value.	Pounds.	Value.	Pounds.	Value.
1882.....	24, 773	\$19, 505	49, 870	\$17, 467	.....	.....
1883.....	21, 366	16, 834	37, 804	13, 238	.....	.....
1884.....	30, 897	24, 344	87, 628	30, 685	11, 243	\$3, 937
1885.....	37, 521	29, 561	90, 697	31, 760	14, 213	5, 000
1886.....	22, 358	17, 142	88, 927	38, 925	45, 305	19, 831
1887.....	31, 211	18, 131	30, 152	13, 198	24, 938	10, 916
1888.....	27, 765	14, 584	82, 871	36, 274	49, 312	9, 610
1889.....	47, 635	12, 393	30, 591	13, 390	46, 497	15, 570

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1882.....	82, 229	\$20, 876	.....	.....	32, 765	\$5, 020	.....	.....
1883.....	66, 392	16, 855	.....	.....	41, 272	6, 315	.....	.....
1884.....	66, 738	18, 428	.....	.....	102, 302	26, 868	.....	.....
1885.....	37, 542	10, 662	11, 537	\$3, 030	86, 963	22, 839	12, 511	\$3, 286
1886.....	76, 511	19, 842	10, 035	2, 713	115, 638	20, 247	13, 633	2, 887
1887.....	43, 029	12, 194	7, 813	2, 052	63, 700	11, 153	5, 245	918
1888.....	28, 045	8, 338	2, 498	656	83, 662	21, 972	4, 722	1, 240
1889.....	44, 985	12, 332	913	247	69, 668	18, 297	1, 301	342

WOOL AND FLOUR.

Year.	Wool.				Flour.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1882.....	.....	.....	.....	.....	205, 447	\$10, 791	446, 432	\$23, 450
1883.....	.....	.....	.....	.....	480, 658	25, 247	816, 474	42, 887
1884.....	4, 383	\$1, 918	.....	.....	1, 308, 077	66, 779	492, 320	25, 860
1885.....	705	309	.....	.....	2, 053, 126	108, 106	127, 867	10, 576
1886.....	8, 023	3, 512	.....	.....	1, 492, 713	65, 339	130, 636	5, 713
1887.....	2, 857	1, 251	.....	.....	1, 313, 633	57, 500	219, 508	9, 608
1888.....	300	52	2, 859	\$751	2, 601, 741	113, 884	603, 946	25, 997
1889.....	.....	89	143	38	2, 514, 113	110, 048	69, 687	3, 050

SENEGAL.

[Not including the rivers of the south.]

Production, imports, and exports.

POTATOES AND TOBACCO.

Year.	Potatoes.				Tobacco.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Pounds.	Value.	Pounds.	Value.
1884.....	14, 896	\$17, 638	1, 783	\$1, 873	1, 177, 100	\$179, 808	282, 288	\$42, 007
1885.....	12, 803	15, 486	661	656	1, 277, 985	197, 432	885, 142	129, 249
1886.....	12, 785	13, 344	98	77	1, 507, 805	241, 415	449, 888	68, 848
1887.....	12, 170	11, 021	96	75	2, 426, 788	372, 608	574, 076	80, 411

Production, imports, and exports—Continued.

BUTTER AND CHEESE.

Years.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1884.....	20,628	\$5,816	1,819	\$455	60,596	\$13,457	6,442	\$1,031
1885.....	17,372	6,553	573	201	71,941	15,979	602	105
1886.....	18,261	6,971	873	306	86,874	18,366	1,003	176
1887.....	21,111	8,056	2,998	1,050	75,144	14,715	1,109	194

COTTON.

	Production.		Imports.	
	Acres.	Pounds.	Pounds.	Value.
1884.....			18,494	\$2,203
1885.....			3,660	171
1886.....			1,907	233
1887.....	420	28,660	2,963	403
1888.....	519	35,274		
1889.....	494	33,069		

NORTH AMERICA.

CANADA.

Statistics of agricultural production are not prepared for the whole of the Dominion of Canada yearly. In the more important provinces such data are available. The figures of trade are taken from the official publication, *Trade and Navigation*, each year.

The Dominion of Canada comprises the provinces of Quebec, Ontario, Nova Scotia, New Brunswick, Manitoba, British Columbia, Prince Edward Island, and the Northwest Territory, making a surface area of about 3,519,000 square miles. The staple products are wheat, barley, oats, peas, corn, hay, potatoes, turnips, and live stock, but the total lack of data from some of the provinces make it impossible to present detailed statements of the crops of the Dominion. Ontario and Manitoba are the principal agricultural provinces, and for these the annual statistics are quite complete. The statistics of acreage and production for these provinces which appear below are taken in the case of Ontario from the agricultural report for that province, and in the case of Manitoba from bulletins of the Department of Agriculture, giving statistics of crops for that province.

The Imperial Institute Year Book, 1892, a publication which, while not exactly official, may be relied upon as accurate, gives the acreage and production of wheat, oats, and potatoes, in 1881, for five of the provinces, for which annual data are not available. From this publication the following statement is made up:

	Wheat.		Oats.	Potatoes.	
	<i>Acres.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Acres.</i>	<i>Bushels.</i>
British Columbia	7,952	179,127	261,089	3,272	488,766
New Brunswick	40,336	538,408	3,401,472	51,362	7,180,427
Nova Scotia	41,855	545,933	1,932,154	60,192	7,610,954
Prince Edward Island	41,942	564,227	3,649,744	39,083	6,232,641
Quebec	223,176	2,082,643	20,620,296	123,082	15,342,093

The official publication, *Statistical Year Book of Canada* for 1891, presents an estimate of the total production and total consumption of wheat in Canada each year, from 1881 to 1890 inclusive. The statement is as follows:

	Production.	Consumption.		Production.	Consumption.
	<i>Bushels.</i>	<i>Bushels.</i>		<i>Bushels.</i>	<i>Bushels.</i>
1881	39, 197, 760	29, 338, 711	1887	40, 264, 592	32, 064, 861
1882	49, 339, 361	37, 433, 138	1888	34, 086, 425	29, 403, 472
1883	31, 895, 384	28, 500, 564	1889	31, 844, 731	26, 590, 971
1884	46, 875, 794	41, 924, 052	1890	41, 804, 991	32, 993, 087
1885	44, 165, 898	35, 661, 948			
1886	39, 511, 861	27, 255, 316	Average	39, 898, 680	32, 056, 612

The importation of wheat, according to the official returns, averaged for the years 1881 to 1890, inclusive, 3,896,402 bushels, while the exports during the same period were 6,313,223 bushels. During this period much the largest portion of the exportation of this cereal is classed as of foreign produce, which means simply that it was grown south of the United States border line. In 1890 the proportion was, of home-grown wheat, less than 450,000 bushels, and of foreign-grown wheat more than 2,200,000 bushels. The production of corn in Canada is limited, and the importation exceeds the exportation by an average of more than 2,000,000 bushels per annum. The average exportation of more than 3,000,000 bushels a year is practically made up entirely of corn which crossed the border from the United States. Barley is one of the staple crops of the Dominion, and the crop which is most largely grown for exportation. Prior to the passage of the present customs' law of the United States this country was the great market for Canadian barley. During the five years, 1885 to 1889, according to Canadian figures, the exportation of barley averaged 9,279,205 bushels, and of this amount the United States is credited with taking an average of 9,257,868 bushels. This shows that practically the whole shipments of barley are to this country. In 1889, the records of the United States Treasury Department show that we purchased from Canada 11,365,881 bushels, while in 1892 our total purchase of foreign barley amounted to only 3,146,328 bushels, the marked falling off in the Canadian trade in this product will be noted in the decline between the shipment of 1890 and those of 1891.

The oats crop is one of the prominent crops of the Dominion, the average net exports for ten years being nearly 2,000,000 bushels per annum. During the latter years of the decade, however, there has been a tendency toward an increase in imports, accompanied by a decrease in exports, and in the years 1889 and 1890 the balance was on the side of imports. In the statement of the tobacco trade it is specified that the imports and exports are of leaf tobacco, and the average net importation is nearly 12,000,000 pounds a year. In the trade in dairy products Canada is largely an exporting country, there being an average exportation in the case of butter of more than 7,000,000 pounds per annum. It is a noticeable fact, however, that the export trade in this product continues to decline, falling off from more than 18,000,000 pounds in 1880, to a little more than 2,000,000 pounds in 1889. In the

case of cheese the balance of trade is still more strongly in favor of exportation, the average for the period being nearly 73,000,000 pounds. In the case of this product, however, the trade shows a steady and substantial increase, shipments rising from 43,000,000 pounds in 1880 to 117,000,000 in 1891. It should be pointed out that a very considerable portion of this export trade is made up of cheese of foreign manufacture, which means practically cheese made in the United States. In 1891 the proportions were, domestic cheese, 106,000,000 pounds; foreign cheese, 11,000,000 pounds.

In the wool trade the Dominion appears as an importing country, absorbing about 8,000,000 pounds per annum of the commercial wool of the world. In addition to the statistics of Ontario, which are presented in full below, an official statement shows that the average production of wool for that province, for the years 1882 to 1891, was 5,451,227 pounds.

The imports of cotton show a substantial and steady increase, the average for the period being more than 26,000,000 pounds per annum. In addition to the net exportation of wheat, already referred to, Canada enjoys a substantial trade in flour, the annual net exportation for ten years being about 16,000,000 pounds, or more than 360,000 bushels. A considerable portion of this flour is of foreign origin.

ONTARIO.

Acres and production of wheat, corn, and rye.

Year.	Wheat.		Corn.		Rye.	
	Area.	Production.	Area.	Production.	Area.	Production.
	<i>Acres.</i>	<i>Bushels.</i>	<i>Acres.</i>	<i>Bushels.</i>	<i>Acres.</i>	<i>Bushels.</i>
1881.....	1,930,123	28,269,931				
1882.....	1,775,337	42,241,983	206,755	6,921,842	185,276	3,583,293
1883.....	1,683,620	22,057,013	214,237		188,111	3,107,186
1884.....	1,586,387	36,440,808	174,560	6,671,815	103,416	1,700,212
1885.....	1,674,599	31,572,931	167,831	5,539,980	78,293	1,311,584
1886.....	1,463,867	28,459,322	156,494	5,572,947	67,779	1,141,338
1887.....	1,382,564	20,706,452	163,893	4,334,835	68,362	923,094
1888.....	1,194,387	20,923,709	222,971	8,993,194	84,087	1,336,130
1889.....	1,220,725	19,288,983	187,116	4,769,851	90,106	1,476,806
1890.....	1,321,854	22,643,193	223,836	7,226,407	103,061	1,612,622
1891.....	1,360,590	33,611,074	241,086	9,432,559	67,865	1,170,394

BARLEY, OATS, AND POTATOES.

Year.	Barley.		Oats.		Potatoes.	
	Area.	Production.	Area.	Production.	Area.	Production.
	<i>Acres.</i>	<i>Bushels.</i>	<i>Acres.</i>	<i>Bushels.</i>	<i>Acres.</i>	<i>Bushels.</i>
1882.....	848,617	25,049,852	1,387,487	52,093,515	160,700	19,013,126
1883.....	757,156	18,994,757	1,418,309	56,293,769	166,823	16,917,735
1884.....	700,472	19,721,673	1,481,828	59,514,892	168,757	28,414,519
1885.....	597,873	17,054,726	1,543,745	56,970,583	159,741	21,755,937
1886.....	735,778	20,127,305	1,621,901	60,514,748	140,143	16,517,068
1887.....	767,346	17,674,920	1,682,463	51,419,313	140,283	11,014,571
1888.....	895,432	24,103,083	1,849,868	67,530,428	153,915	22,975,671
1889.....	875,286	24,123,527	1,923,444	66,374,496	145,812	14,808,015
1890.....	701,326	16,091,886	1,882,366	54,431,461	158,094	18,114,643
1891.....	553,166	16,650,697	1,840,636	77,373,843	160,218	24,814,128

MANITOBA.

Acreage and production of wheat, barley, oats, and potatoes.

Year.	Wheat.		Barley.		Oats.		Potatoes.	
	Area.	Production.	Area.	Production.	Area.	Production.	Area.	Production.
	<i>Acres.</i>	<i>Bushels.</i>	<i>Acres.</i>	<i>Bushels.</i>	<i>Acres.</i>	<i>Bushels.</i>	<i>Acres.</i>	<i>Bushels.</i>
1883.....	208,674	5,099,295	48,225	1,492,352	172,345	7,822,202	12,168	2,947,374
1884.....	307,020	6,368,782	40,848	1,056,758	133,004	4,191,346	11,267	2,226,866
1885.....	367,479	7,209,479	52,189	1,375,389	157,026	5,708,206	14,280	2,869,329
1886.....	363,734	6,922,723	46,776	1,087,463	146,278	4,890,382	8,585	1,241,512
1887.....	432,134	12,741,050	56,110	1,985,914	155,176	7,494,237	10,791	2,723,281
1888.....	518,000	7,220,640	70,147	1,700,693	170,693	5,222,748	11,941	1,437,304
1889.....	623,245	7,428,511	80,238	1,084,696	218,744	3,522,748	10,812	2,620,907
1890.....	746,058	15,128,034	66,035	2,134,643	235,534	9,813,296	10,812	2,620,907
1891.....	916,664	23,922,598	89,829	3,298,673	305,644	15,227,922	12,705	2,364,225

Imports and exports of Canada.

WHEAT AND CORN.

Year.	Wheat.				Corn.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1880.....	7,758,675	\$8,079,073	12,553,075	\$13,549,876	6,578,462	\$2,988,216	4,691,293	\$2,184,212
1881.....	7,571,036	7,801,593	9,378,867	9,636,505	7,689,870	3,605,815	5,423,323	2,615,744
1882.....	3,023,612	3,358,571	6,636,318	8,153,610	4,041,527	2,439,863	2,300,187	1,353,738
1883.....	5,110,330	5,903,631	11,071,858	11,703,374	2,502,125	1,679,541	845,439	586,020
1884.....	3,718,054	3,876,132	3,116,416	3,359,192	6,185,419	3,713,874	3,926,454	2,485,846
1885.....	3,226,742	3,102,422	5,594,763	5,061,005	3,619,118	2,073,089	2,070,956	1,293,862
1886.....	2,448,034	2,229,792	5,885,723	5,190,424	4,671,628	2,242,318	2,751,478	1,390,796
1887.....	3,662,767	3,152,478	9,414,729	7,859,538	5,471,841	2,478,607	3,480,105	1,646,736
1888.....	5,489,458	4,668,582	7,529,781	6,410,954	3,601,981	1,927,722	1,241,120	795,963
1889.....	1,779,357	1,677,178	1,841,623	1,744,957	7,581,392	3,478,969	4,524,468	2,191,110
1890.....	2,934,628	2,582,709	2,662,148	2,394,130	10,273,748	4,194,320	6,833,558	2,999,843
1891.....	2,652,546	2,643,879	4,682,444	4,102,734	6,450,677	3,308,786	3,666,285	1,803,453

RYE AND BARLEY.

Year.	Rye.				Barley.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1880.....	19,223	\$13,819	1,001,052	\$712,223	16,128	\$7,942	7,469,627	\$4,482,585
1881.....	232	242	897,728	783,840	17,467	7,872	9,089,009	6,261,383
1882.....	1,493	1,659	1,322,076	1,191,119	9,790	6,414	11,953,714	10,114,623
1883.....	46,807	31,794	1,127,567	744,613	16,984	10,199	9,095,135	6,293,233
1884.....	31,419	21,331	930,930	595,692	28,978	13,168	8,025,496	5,104,642
1885.....	17,647	11,345	313,934	191,163	15,181	6,045	9,353,199	5,503,833
1886.....	19	15	176,146	98,666	8,471	5,642	8,823,934	5,724,693
1887.....	4,734	2,539	128,349	67,269	5,212	2,557	9,755,048	5,257,889
1888.....	77,629	47,653	27	14	7,072	3,210	9,665,505	6,494,416
1889.....	105,832	56,695	.....	.....	7,068	3,263	10,261,784	6,464,592
1890.....	70,969	34,413	520,884	254,897	12,946	4,963	10,290,352	4,600,422
1891.....	41,857	24,432	391,887	250,440	203	192	5,046,540	2,929,885

Imports and exports of Canada—Continued.

OATS AND POTATOES.

Year.	Oats.				Potatoes.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1880.....	182,503	\$55,612	4,891,497	\$1,715,495	33,945	\$16,176	1,472,304	\$460,918
1881.....	87,611	36,244	3,018,776	1,191,873	20,445	11,248	2,425,403	856,239
1882.....	75,324	39,225	4,279,637	1,729,300	22,517	14,571	3,919,943	2,268,769
1883.....	229,704	98,606	1,056,331	460,821	41,079	24,107	2,501,414	1,048,954
1884.....	250,262	88,273	1,476,873	534,196	176,295	80,527	777,183	231,716
1885.....	324,848	104,748	2,442,232	896,739	51,600	26,291	681,541	234,812
1886.....	226,935	73,351	4,348,197	1,478,435	60,158	26,720	2,293,149	492,802
1887.....	44,014	14,098	2,112,801	653,837	62,584	35,869	1,618,116	439,206
1888.....	48,402	15,975	584,584	185,010	37,469	20,823	2,779,668	1,050,495
1889.....	443,294	125,320	431,078	154,119	44,481	24,490	1,006,610	287,763
1890.....	990,519	259,162	873,590	277,805	136,316	51,299	1,504,778	495,745
1891.....	138,637	48,148	356,542	156,846	34,625	31,306	3,784,367	1,693,674

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	475,125	\$88,809	18,887,703	\$3,119,162	3,167,648	\$211,513	43,441,112	\$4,094,046
1881.....	316,661	77,094	17,820,278	3,611,888	4,546,776	512,882	54,713,020	6,091,534
1882.....	292,554	70,077	15,338,488	2,975,170	4,779,765	512,638	55,325,167	5,979,537
1883.....	496,118	99,200	8,162,729	1,714,381	5,400,566	586,944	63,340,938	7,025,035
1884.....	581,586	111,867	8,473,976	1,674,763	6,094,336	579,082	75,835,557	7,823,620
1885.....	1,165,075	219,608	8,145,310	1,577,428	7,282,052	609,892	86,579,834	8,902,115
1886.....	1,251,331	207,604	5,641,845	981,942	7,080,599	537,564	85,287,817	7,291,685
1887.....	441,943	77,901	5,716,120	1,011,522	5,347,312	468,899	78,780,858	7,552,008
1888.....	270,044	63,203	4,541,150	824,489	6,582,568	666,002	90,698,876	9,582,847
1889.....	973,843	144,249	2,217,986	392,655	7,057,171	631,593	95,364,585	9,517,250
1890.....	1,633,332	249,100	3,189,083	526,654	13,611,097	1,194,238	107,489,877	10,523,946
1891.....	462,485	90,975	3,964,844	624,640	10,774,948	900,798	117,416,051	10,434,239

WOOL AND COTTON.

Year.	Wool.				Cotton—imports.	
	Imports.		Exports.		Pounds.	Value.
	Pounds.	Value.	Pounds.	Value.		
1880.....	7,894,812	\$1,692,817	3,765,714	\$949,575	13,237,168	\$1,496,024
1881.....	8,040,287	1,598,877	1,482,927	427,987	16,018,721	1,705,851
1882.....	9,682,757	1,860,615	1,222,395	270,759	18,127,322	2,286,534
1883.....	9,821,106	2,061,138	1,375,572	280,530	27,451,349	2,912,772
1884.....	6,189,096	1,174,472	1,539,422	316,552	19,203,659	2,130,351
1885.....	7,768,171	1,346,612	989,925	196,178	21,770,308	2,363,859
1886.....	11,983,111	1,796,850	1,524,184	314,937	29,728,512	2,893,858
1887.....	12,085,246	1,896,375	1,454,768	324,604	30,971,070	2,933,877
1888.....	8,399,410	1,322,967	960,523	224,690	31,626,683	3,110,522
1889.....	10,666,517	1,805,962	1,037,922	221,095	35,793,067	3,613,074
1890.....	8,905,266	1,729,058	1,105,192	248,801	33,456,015	3,539,249
1891.....	7,849,059	1,398,848	1,131,802	247,910	35,643,056	3,603,185

Imports and exports of Canada—Continued.

WHEAT FLOUR AND CORN MEAL.

Year.	Wheat flour.				Corn meal.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Volume
1880.....	22, 154, 860	\$590, 342	110, 050, 864	\$3, 019, 717	33, 799, 416	\$420, 391	267, 932	\$3, 307
1881.....	46, 340, 868	1, 112, 964	98, 285, 180	2, 469, 900	34, 926, 024	455, 207	297, 332	3, 997
1882.....	39, 340, 336	1, 084, 029	99, 591, 520	2, 941, 740	26, 166, 980	416, 977	144, 256	2, 473
1883.....	59, 085, 180	1, 518, 296	103, 162, 640	2, 703, 078	25, 586, 820	447, 016	54, 684	1, 077
1884.....	110, 794, 292	2, 602, 548	55, 762, 784	1, 440, 675	25, 330, 844	371, 775	71, 932	1, 080
1885.....	110, 850, 152	2, 273, 355	31, 566, 584	716, 739	24, 000, 004	329, 356	94, 668	1, 469
1886.....	42, 216, 636	844, 290	81, 417, 812	1, 875, 979	24, 520, 972	300, 900	177, 772	2, 305
1887.....	34, 173, 188	657, 194	104, 105, 792	2, 366, 472	26, 948, 628	313, 943	189, 336	2, 188
1888.....	12, 776, 652	254, 097	69, 753, 068	1, 603, 712	26, 284, 972	343, 605	154, 252	2, 247
1889.....	54, 756, 716	1, 093, 718	30, 646, 560	769, 478	30, 252, 992	369, 513	229, 320	2, 915
1890.....	36, 349, 768	672, 715	29, 391, 964	661, 072	37, 082, 808	381, 506	371, 420	4, 031
1891.....	12, 913, 264	269, 508	61, 402, 880	1, 460, 300	24, 648, 960	324, 642	371, 812	4, 924

RYE FLOUR AND TOBACCO.

Year.	Rye flour.				Tobacco.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	25, 480	\$578			9, 430, 025	\$816, 910	69, 457	\$20, 369
1881.....	18, 424	502	19, 600	\$220	10, 460, 588	981, 761	69, 181	14, 417
1882.....	27, 832	686			12, 286, 391	1, 334, 010	98, 231	13, 052
1883.....	18, 816	473			9, 586, 151	1, 092, 893	95, 289	18, 384
1884.....	19, 404	447			14, 325, 611	1, 745, 291	114, 661	40, 946
1885.....	18, 228	395			11, 497, 294	1, 456, 295	83, 944	34, 057
1886.....	22, 736	482			15, 261, 815	1, 708, 812	125, 848	29, 192
1887.....	26, 460	503			11, 953, 919	1, 328, 703	323, 586	54, 908
1888.....	37, 240	780			12, 514, 896	1, 489, 357	172, 429	53, 897
1889.....	212, 660	4, 633			9, 574, 257	1, 340, 344	172, 596	73, 841
1890.....	66, 836	1, 275	392	7	11, 836, 755	1, 424, 231	104, 656	50, 076
1891.....	41, 944	877			12, 322, 477	1, 617, 700	83, 484	39, 636

MEXICO.

No statements of acreage and production are available. The trade statements presented below cover only the exportation, and are taken from the Mexican official statement of exports, for each year presented. A statement of imports of certain products covering the period 1884 to 1888, inclusive, drawn from *Boletin Semestral, de la Direccion General du Estadistica*, 1890, No. 6, is presented.

The annual exportation of wheat during three years, 1888 to 1890, averaged 17,478 bushels. The wheat crop of Mexico constitutes an important product in her agriculture, the high table lands and cooler elevations being adapted for its production in spite of its geographical location. In 1883 Consul-General Sutton estimated the crop at 12,000,000 bushels. A small amount of wheat is imported into Mexico, this country probably supplying the bulk of the requirement. In 1891 our own official records show shipments to that country of 7,509 bushels.

Corn is grown in every State of the Mexican republic, and even under the primitive methods followed, it is one of the principal crops of

the country. It has been stated in the Consular Report already referred to that the average yield per acre on irrigated lands is about 50 bushels, and on dry land about 30 bushels. The export trade is insignificant, but there is considerable importation, averaging 2,067,347 bushels for the three years 1886 to 1888, inclusive. The average exportation of tobacco amounts to 969,307 pounds during the period from 1884 to 1890. The use of tobacco is very common among all classes of the Mexican population and there is a very considerable import trade in this product. The average importation for the years 1884 to 1888 was 3,141,257 pounds. No definite statement of the Mexican product is available, but in 1883 a series of three independent estimates made the crop somewhere in the neighborhood of 16,000,000 pounds.

Imports.

Years.	Corn.	Rye.	Barley.	Potatoes.	Tobacco.	Butter.	Cheese.	Wool.	Cotton.
	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>
1884.....			366,703	54,201	1,740,472	35,476	460,464	592,969	1,247,076
1885.....			371,125	69,991	3,047,710	30,794	467,618	1,048,860	218,143
1886.....	1,911,177	6,253	438,648	56,812	3,478,837	39,427	480,843	1,799,247	1,984,405
1887.....	1,987,813	6,111	554,015	49,107	4,304,484	41,872	498,425	1,808,996	2,042,663
1888.....	2,303,052	5,062	756,399	56,692	3,134,782	35,825	458,894	2,287,328	83,083

Exports.

Year.	Wheat.		Flour.		Barley.		Butter.		Cheese.	
	Bushels.	Value.	Pounds.	Value.	Bushels.	Value.	Pounds.	Value.	Pounds.	Value.
1884.....			2,209	\$124	1,123	\$1,106			5,245	\$676
1885.....			99	2	993	761			3,133	328
1886.....			1,345	47	489	333	694	\$180	2,714	237
1887.....			20,055	901	869	597	57	17	395	88
1888.....	2,282	\$1,217	24,548	814	1,675	1,794	487	73	1,138	117
1889.....	22,584	9,661	44,846	1,360	313	548	448	151	5,065	316
1890.....	27,568	9,613	126,169	2,633	195	180	137	34	8,003	485

Year.	Corn.		Tobacco.		Wool.		Cotton.	
	Bushels.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1884.....	4,823	\$4,803	645,238	\$92,423	240,096	\$37,755	40	\$2
1885.....	2,913	1,947	560,279	161,076	2,516,672	148,486	595	10
1886.....	13,569	6,247	921,629	172,648	5,127,549	179,578		
1887.....	24,343	14,702	1,202,274	275,705	1,926,712	133,766	5,064	154
1888.....	34,715	19,643	895,085	200,554	124,522	9,501		
1889.....	963	605	1,176,595	244,476	802,503	66,929		
1890.....	686	453	1,384,048	264,666	275,465	20,334		

UNITED STATES.

The data of production for this country is drawn from the official work of the United States Department of Agriculture, and represents estimates made each year. The figures relative to the foreign trade in the various products named are taken from the official report of the Treasury Department *Commerce and Navigation* of each year. The United States is the principal exporter of agricultural products among

the countries of the world, and so generous is her production, that in addition to furnishing a food supply more extended and more liberal than that enjoyed by any other people of the world, she is able to contribute each year a very large part of the surplus production of agriculture, which forms the basis of civilized commerce. Agricultural products have comprised something like 73 per cent of the aggregate value of the domestic exports from the United States, but in 1892 when the export trade was the heaviest ever recorded in the history of the country, they furnished 78.1 per cent of the total value, aggregating \$793,717,676. This is a record unparalled in the history of the trade of this or any other country, and the shipment of agricultural products making up this total actually aggregates more than the total foreign trade of the country in any year prior to 1870, combining both imports and exports. The great trade of 1892, however, is not presented in statements below, the period covered being from 1881 to 1891, inclusive. This period was selected in order that the time covered might closely correspond to the data presented for other countries.

The average production of wheat during the period 1881 to 1890, inclusive, is nearly 440,000,000 bushels, but the production of the last year of which an estimate is given, 1891, was nearly 612,000,000 bushels, and this is the largest crop of wheat ever grown in this or any other country. The small amount of wheat imported represents no settled trade, and the greater part usually comes across the Canadian line. The exportation of wheat forms a very large item in our foreign trade, fluctuating from year to year in accordance to season and production at home, and demand and price existing abroad. During the eleven years from 1881 to 1891 it has ranged from 55,000,000 bushels in 1890 to 151,000,000 bushels in 1881. This increase represents the shipments in grain only, the trade in flour, which also reaches very large proportions, being considered elsewhere. The average shipment of wheat during the period 1881 to 1891 was nearly 84,000,000 bushels, and the average export value was a very little under \$1 per bushel. In the earlier years of the period, however, the value was considerably greater, but in the later years it has fallen very much below that figure.

Corn is the great national crop of the country. More than 4 per cent of the land surface of the country is devoted to the cultivation of this crop, and the average acreage during the ten years 1881 to 1890 was nearly 72,000,000 acres each year. It is the most widely distributed crop and grown to some extent in every State and Territory of the country, and a prominent crop everywhere almost, except in the higher elevation of the mountain regions. The average production during the ten years ending 1890 was 1,680,000,000 bushels, but with the acreage now devoted to its culture a thoroughly favorable season insures a crop of more than 2,000,000,000 bushels, the largest cereal crop grown in any country. While corn is grown in all sections of the country, it is generally for home use, the corn of commerce practically all coming from

the seven so-called surplus States in the Ohio and Missouri valleys. It is grown almost entirely for domestic use, and taking the average of more than twenty years the annual exportation amounts to less than 4 per cent of the crop. Heretofore it has been shipped abroad only when the price at home was low, making possible its use in foreign countries in competition with other feeding materials for animals. In some portions of the United States it forms a prominent part of the daily ration of the people, but the people of Europe have never appreciated its value as human food. The average exportation of corn between 1881 and 1890 was 57,000,000 bushels per annum, but there is a wide fluctuation in the shipment from year to year, the range being from 24,000,000 to 102,000,000 in the period from 1881 to 1890.

The increase in the acreage devoted to oats during the past decade has been a striking feature of American agriculture. In 1881 it was estimated at 16,800,000 acres; in 1889 this was increased to 27,400,000 acres. The average annual product is nearly 600,000,000 bushels, an increase from 416,000,000 bushels in 1881 to 751,000,000 in 1889. The export trade in this product is very small, averaging for the whole period less than 3,000,000 bushels, but the shipments of the decade have been concentrated in a few years. In 1888 the shipments amounted to 332,000 bushels, but in 1890, following the very large crop of 1889, nearly 14,000,000 bushels were disposed of in foreign markets.

It will be noted that estimates for the period 1889 to 1891, inclusive, are available for only the three principal cereal crops. The Department has no complete detailed estimates of the minor crops since 1888. The production of rye is quite stationary, averaging for the period 1881 to 1888 25,000,000 bushels upon an acreage somewhat exceeding 2,000,000 acres. The foreign trade in this grain is small, and from the data presented is becoming of less importance. In the case of barley there has been considerable increase in the importance of the crop during the decade under consideration; but during the period for which no figures are given there has been a still further increase, the result of customs legislation, which caused a material decrease in the importation of foreign barley. This is the only cereal crop in which the production of the United States has heretofore been insufficient to meet ordinary demands for consumption, there having been for a number of years a net importation, mainly from Canada, of something like 10,000,000 bushels per annum. The potato crop varies in accordance with the season, although there is a gradual enlargement. The average production for the years 1881 to 1888 is nearly 170,000,000 bushels, but this production is not sufficient for the demand for consumption, and the country is dependent on foreign farmers for an average of nearly 3,000,000 bushels each year. The production of tobacco shows a steady increase, averaging for the period presented almost 500,000,000 pounds grown on nearly 700,000 acres. The foreign trade presented includes imports and exports of leaf-tobacco, with the addition, during the later years, of a small

quantity classed as stems and trimmings. These items, however, were included in the earlier years, though not specifically mentioned. The trade presents the apparent anomaly of a country exporting a large amount and also importing a considerable amount. The exports for the period under consideration average 248,000,000 pounds each year, while the imports average about 16,000,000 pounds. The exports are made up almost entirely of the heavier grades of leaf tobacco for manufacture, while the imports, which have increased considerably during the later years presented, but which have been checked by recent legislation, are made up almost exclusively of leaf suitable for fine wrappers and fine cigars, of which a portion comes from Cuba and the West Indies, but during the later years of the period considerable part of the supply has been drawn from the Dutch East Indies, Sumatra, and Java.

No annual statements of the production of butter and cheese are available. In 1889, according to the returns of the census for that year, the amount of butter made on farms was 777,250,287 pounds, and during the same period there was made in factories 29,421,784 pounds, making a total production for that year of 806,672,071 pounds.

By the same authority the amount of cheese made on farms during the same year was 27,272,489 pounds, and in factories 215,885,361 pounds, a total of 243,157,850 pounds. It will be noticed that in the case of butter at that period a very small proportion of the total amount was produced outside of the farms. Since that time there has been a marked change in dairy methods, and now a much larger proportion is manufactured in creameries, either coöperative or organized as a manufacturing industry. A change from dairy farming in the matter of cheese occurred at a much earlier date, and now a comparatively small portion of the whole is made outside of cheese manufactories.

During the past decade there has been a considerable increase in the manufacture of both cheese and butter, the dairy absorbing a larger share of rural attention than in earlier years. The returns for production in 1889 are not yet available.

In the matter of trade in butter, the import trade is very small, and a large portion of it represents exchanges across the Canadian border. During the years 1881 to 1883 inclusive some butter was imported, but it was so small an amount that it was classed under the general head of "other provisions." The export trade, however, is of more importance, but the figures presented would indicate that it is declining rather than increasing. The average shipment for the ten years 1881 to 1890 inclusive is nearly 19,000,000 pounds per annum, but in 1881 the shipments amounted to nearly 32,000,000 pounds and in 1891 it had declined to a little more than 15,000,000 pounds. An explanation of this apparent decline will perhaps be afforded by an examination of statistics showing our foreign trade in oleomargarine and other imitation butters. Prior to 1884 the exports of imitation butters and oleo-

margarine oil were not of sufficient importance to insure their appearance in the record of imports except under the general head of "other miscellaneous products." In 1884 the shipments of these compounds aggregated something more than 40,000,000 pounds and in 1889 this had increased in regular progression until it amounted to more than 82,000,000 pounds, an increase of more than 100 per cent in seven years. During the same period the exports of butter show an annual falling off until 1888, when they had declined to only 10,000,000 pounds. Since that date, however, there has been some revival in shipments. In 1891, the last year for which data are presented, more than five pounds of imitation were shipped for every pound of real butter.

The trade in cheese shows a steady though not excessive increase in imports, accompanied, however, by an equally steady and very marked decrease in exports. The average importation for each year for the period 1884 to 1890 inclusive is a little more than 7,000,000 pounds, rising from 6,000,000 in 1884 to 9,000,000 in 1890. In the export trade the average shipment for the years 1881 to 1890 is 104,000,000 pounds, but in 1881 it was 148,000,000 pounds, as against 95,000,000 in 1890. This falling off in the cheese trade may in part be attributed to the increase in domestic consumption which has no doubt taken place in recent years, but it is to be feared that it is to a great extent the result of a prejudice against genuine American cheese, engendered in some markets of Europe by the habit which exists among some exporters of shipping cheap and inferior grades of cheese. The result has been to damage the reputation of American goods, and, of course, the demand for the genuine article.

The figures of cotton production which are presented are not official estimates. The acreage is given as returned by the Department of Agriculture each year, but instead of an estimate of production the commercial record of crop movement for the year is presented. As a rule this movement is practically identical with production, but occasionally there are years in which the distribution for one crop laps into the distribution of another. The figures are given upon the authority of the National Cotton Exchange, the New Orleans Cotton Exchange, and the Financial Chronicle of New York.

In the cotton trade of the world the United States, of course, easily holds first place. This commanding position of the United States has been maintained only since the invention of the cotton gin. Prior to that time the United States was not included in any consideration of the sources of commercial supply of cotton, and, while a little was grown, it hardly passed the experimental stage, and the cotton used in manufactories, limited though they were, was imported. A few years prior to the beginning of the nineteenth century a duty was imposed upon cotton introduced from abroad and Secretary Hamilton, in his famous report upon manufactures, urged the repeal of the duty on the ground that it was never likely to build up the cotton industry of this country, but

tended to retard the development of cotton manufacture. The theory then was that our cotton supply was to come from abroad. Three years after this report was written the gin was perfected and the cotton trade of the world was revolutionized. Instead of being an importing country we at once took first rank as a producing country, and have since maintained this position. At the present time, according to the most reliable estimates available, we produce more than half of the fiber grown in the world, and what is more important we produce 75 per cent of all entering into commercial channels. In spite of this fact, however, we still import cotton to a very limited extent, but it is in the effort to secure a special fiber of some quality which is supposed to be lacking in our ordinary staple.

During the period of 1881 to 1890, inclusive, the imports averaged something more than five million pounds per annum, but in 1891 there was a considerable increase, the record for that year being 20,908,000 pounds. Much the larger portion of these imports are made up of Egyptian cotton. Peruvian cotton, either from Peru or Brazil, stands second, leaving but a small quantity from other miscellaneous sources. The peculiarity of the Egyptian cotton is its smoothness and brilliancy of color, making it desirable by the manufacturers for hosiery, etc., while the Peruvian cotton is fleecy in character, making it desirable for admixtures with wool in certain manufactures.

The export trade in cotton averaged for the ten years, 1881 to 1890, 2,133,000,000 pounds per annum, fluctuating from year to year in accordance with the size of the crop. The proportion of the domestic product which is shipped abroad averages a little more than two-thirds, but is gradually decreasing with the increase of home manufactures.

The production of wool in the United States, as estimated by the United States Department of Agriculture, averaged for the ten years, 1881 to 1890, inclusive, 281,000,000 pounds per annum. The production in recent years has not been quite so large as during the years 1884 and 1885, on account of the slaughter of flocks which took place during the later years of the decade. The number of sheep, however, is rapidly increasing, and the wool clip now amounts to nearly 300,000,000 pounds.

The export trade in wool is small, but there is an import trade of very large proportions. The average for the period presented is more than 93,000,000 pounds, while the imports for 1891 were 129,000,000 pounds. It is a fact not generally appreciated that the United States is one of the largest consumers of wool in manufactures. An examination of official data will show that in the net supply available France leads the world, with the United Kingdom or the United States second. A further examination of the data presented in this report will show the superior quality of the wool used in manufactures in this country. The wool supply of our European competitors is drawn very largely from hot and arid climates with primitive agriculture, and is apt to

be harsh or weak and uneven of staple. With them importation forms much the largest part of the supply; with us imports are very small in proportion to total supply, while our sheep, being of high grade Merino and English breeds, furnish wool of a superior quality. It is apparent that our wool therefore is not excelled and probably not equaled by that of any other manufacturing country.

In addition to the heavy export trade in wheat already referred to, this country during the past ten years has had an average annual exportation of 1,884,000,000 pounds of flour, equivalent to more than 40,000,000 bushels of wheat on the basis of ordinary calculations of reducing flour to grain.

Production, imports, and exports.

WHEAT.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1881.....	37,709,020	383,280,090	200,620	\$204,508	150,712,509	\$167,845,956
1882.....	37,067,194	504,185,470	846,675	1,077,795	95,962,407	113,827,376
1883.....	36,455,593	421,086,160	1,075,725	1,070,316	107,352,342	120,837,129
1884.....	39,475,885	512,765,000	24,329	23,920	70,450,007	75,130,427
1885.....	34,189,246	357,112,000	206,556	170,290	84,935,183	73,188,000
1886.....	36,806,184	457,218,000	380,540	381,393	58,105,141	50,558,862
1887.....	37,641,783	456,329,000	277,842	218,867	102,330,395	91,062,474
1888.....	37,336,138	415,868,000	583,115	466,886	66,279,993	56,627,546
1889.....	38,123,859	490,560,000	130,649	119,017	46,635,624	41,846,064
1890.....	36,087,154	399,262,000	157,060	112,303	54,558,144	45,387,931
1891.....	39,916,897	611,780,000	545,968	431,940	55,131,948	51,420,272

CORN.

1881.....	64,262,025	1,194,916,000	75,155	\$83,126	91,908,175	\$50,702,669
1882.....	65,659,545	1,617,025,100	69,621	59,895	43,184,915	28,845,830
1883.....	68,301,889	1,551,066,895	25,989	22,895	40,586,825	27,756,082
1884.....	69,683,780	1,795,528,000	4,894	4,899	45,247,490	27,648,044
1885.....	73,130,150	1,936,176,000	4,507	4,002	51,834,416	28,008,863
1886.....	75,694,208	1,665,441,000	16,104	8,785	63,655,433	31,730,922
1887.....	72,892,720	1,456,161,000	30,536	16,636	40,307,252	19,347,361
1888.....	75,672,763	1,987,790,000	37,493	20,507	24,278,417	13,355,950
1889.....	78,319,651	2,112,892,000	2,401	1,216	69,592,929	32,982,277
1890.....	71,970,763	1,489,970,000	1,626	908	101,973,717	42,658,015
1891.....	76,204,515	2,060,154,000	2,111	1,651	30,768,213	17,652,687

RYE.

1881.....	1,789,100	20,704,950	473,925	\$415,763	2,388,750	\$2,282,171
1882.....	2,227,894	29,960,037	954,119	889,189	1,831,129	1,758,837
1883.....	2,314,754	28,058,582	978,677	693,303	3,159,534	2,372,372
1884.....	2,343,963	28,640,000	656,113	459,015	6,967,014	4,823,761
1885.....	2,129,301	21,756,000	239,014	181,949	3,235,515	2,194,320
1886.....	2,129,918	24,489,000	173,792	128,180	280,702	184,758
1887.....	2,053,447	20,693,000	18,469	10,720	492,083	300,273
1888.....	2,364,805	28,415,000	41	20	86,719	55,505
1889.....	.....	.....	16	24	287,252	158,917
1890.....	.....	.....	197,598	115,657	2,415,109	1,371,303
1891.....	.....	.....	140,737	98,227	332,739	212,161

Production, imports, and exports—Continued.

BARLEY.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1881.....	1,967,510	41,161,330	9,528,616	\$6,692,125	885,246	\$549,245
1882.....	2,272,103	48,953,926	12,182,722	10,866,628	205,930	151,575
1883.....	2,379,009	50,136,097	10,050,687	7,737,984	444,558	306,466
1884.....	2,608,818	61,203,000	8,596,122	5,922,144	724,955	403,622
1885.....	2,729,359	58,360,000	9,986,507	6,522,092	635,728	349,589
1886.....	2,652,957	59,428,000	10,197,115	7,177,887	266,597	177,951
1887.....	2,901,953	56,812,000	10,355,594	6,173,208	1,946,916	879,893
1888.....	2,996,382	63,884,000	10,831,461	8,076,082	555,384	320,389
1889.....	.....	.....	11,368,414	7,723,838	1,440,321	853,490
1890.....	.....	.....	11,332,545	5,629,849	1,418,104	757,927
1891.....	.....	.....	5,078,733	3,222,593	973,062	669,203

OATS.

1881.....	16,831,600	416,481,600	64,412	\$23,223	405,078	\$187,662
1882.....	18,494,691	488,250,610	1,850,983	784,118	625,690	298,349
1883.....	20,324,962	571,302,400	815,017	360,855	465,796	235,203
1884.....	21,300,917	583,628,000	54,627	22,904	1,764,176	701,930
1885.....	22,783,630	629,409,000	34,397	13,707	4,191,699	1,589,665
1886.....	23,658,474	624,134,000	90,450	30,792	5,741,457	1,968,230
1887.....	25,920,906	659,618,000	87,380	29,579	440,283	179,634
1888.....	26,998,282	701,735,000	67,838	23,655	332,564	143,284
1889.....	27,462,316	751,515,000	22,310	10,178	624,226	245,562
1890.....	26,431,369	523,621,000	21,436	8,950	13,692,904	4,510,104
1891.....	25,581,861	738,394,000	9,692	5,056	953,010	405,708

POTATOES.

1881.....	2,041,670	109,145,494	2,170,372	\$874,223	640,903	\$460,842
1882.....	2,171,636	170,972,508	8,789,860	4,660,120	411,143	443,477
1883.....	2,289,275	208,164,425	2,362,362	1,092,211	443,890	430,321
1884.....	2,220,980	190,642,000	425,408	193,623	554,613	374,588
1885.....	2,265,823	175,029,000	658,633	255,590	381,136	265,502
1886.....	2,287,136	168,051,000	1,937,416	649,009	498,379	348,999
1887.....	2,357,322	134,103,000	1,432,490	543,091	437,029	319,676
1888.....	2,533,280	202,365,000	8,259,538	3,693,021	404,920	308,766
1889.....	.....	.....	883,380	321,106	471,955	316,224
1890.....	.....	.....	3,415,578	1,365,898	406,618	269,693
1891.....	.....	.....	5,401,912	2,797,927	341,189	316,482

TOBACCO.

Year.	Production.		Imports.		Exports.	
	Acres.	Pounds.	Pounds.	Value.	Pounds.	Value.
1881.....	646,239	449,880,014	7,468,664	\$3,897,980	227,730,739	\$19,090,701
1882.....	671,522	513,077,558	11,889,823	6,230,865	224,452,910	19,395,317
1883.....	638,739	451,545,641	14,893,131	8,548,999	236,532,375	19,754,309
1884.....	724,668	541,504,000	12,955,017	5,962,163	207,157,687	17,765,760
1885.....	752,520	562,736,000	12,924,265	6,301,988	230,483,646	22,025,786
1886.....	750,210	532,537,000	15,695,670	7,830,007	294,068,388	27,825,092
1887.....	598,620	386,240,000	17,519,194	8,704,950	306,088,816	26,591,871
1888.....	747,326	565,795,000	18,600,142	10,870,841	264,261,111	22,842,649
1889.....	.....	.....	20,106,881	10,868,226	225,335,843	19,783,815
1890.....	.....	.....	28,720,674	17,605,192	257,444,403	22,371,343
1891.....	.....	.....	23,061,008	13,284,162	249,232,605	21,033,759

Production, imports, and exports—Continued.

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....			31,560,500	\$6,256,024			147,995,614	\$16,380,248
1882.....			14,794,305	2,864,570			127,989,782	14,058,975
1883.....			12,348,641	2,290,665			99,220,467	11,134,526
1884.....	373,844	\$77,109	20,652,987	3,754,489	6,243,014	\$961,582	112,944,076	11,675,107
1885.....	187,337	34,961	21,716,280	3,650,456	6,247,560	964,587	112,091,888	11,458,207
1886.....	178,712	28,421	18,954,160	2,958,502	6,309,124	855,570	91,920,810	7,668,684
1887.....	236,100	38,125	12,531,392	1,983,742	6,592,192	874,261	81,317,227	7,604,200
1888.....	143,215	26,429	10,455,651	1,884,908	8,750,185	1,214,936	88,054,240	8,744,019
1889.....	178,851	24,577	15,509,581	2,569,268	8,207,026	1,135,184	85,066,333	7,900,588
1890.....	75,521	13,679	29,748,608	4,187,637	9,263,573	1,295,506	95,472,411	8,605,872
1891.....	380,728	58,541	15,187,114	2,197,106	8,863,640	1,358,752	82,133,876	7,405,376

OLEOMARGARINE.

Year.	Imitation butter—exports.		The oil—exports.	
	Pounds.	Value.	Pounds.	Value.
1884.....	1,537,682	\$171,119	37,785,159	\$4,071,243
1885.....	761,938	92,779	37,120,217	4,358,853
1886.....	928,053	93,363	27,729,835	2,954,954
1887.....	834,574	88,848	45,712,985	4,676,131
1888.....	1,729,327	212,634	30,146,595	3,230,123
1889.....	2,192,047	250,605	28,102,534	2,664,492
1890.....	2,535,926	297,264	68,218,098	6,476,258
1891.....	1,986,743	255,024	80,231,035	7,859,130

WOOL.

Year.	Production.	Imports.		Exports.	
	Pounds.	Pounds.	Value.	Pounds.	Value.
1881.....	240,000,000	55,964,236	\$9,703,968	5,578,989	\$1,010,624
1882.....	272,000,000	67,861,744	11,096,050	3,948,015	707,850
1883.....	290,000,000	70,575,478	10,949,331	4,074,517	686,274
1884.....	300,000,000	78,350,651	12,384,709	2,315,094	346,529
1885.....	308,000,000	70,596,170	8,879,923	3,203,345	532,758
1886.....	302,000,000	129,084,958	16,746,081	8,672,506	1,235,716
1887.....	285,000,000	114,038,030	16,424,479	6,986,232	902,772
1888.....	269,000,000	113,558,753	15,887,217	4,381,895	632,140
1889.....	205,000,000	126,487,729	17,974,515	3,404,670	483,625
1890.....	276,000,000	105,431,285	15,264,083	3,519,509	590,016
1891.....	285,000,000	129,303,648	18,231,372	2,638,123	361,260

Production, imports, and exports—Continued.

COTTON.

[The figures of production are those of commercial movement.]

Year.	Production.		Imports.		Exports.	
	Acres.	Pounds.	Pounds.	Value.	Pounds.	Value.
1881.....	16, 710, 730	2, 588, 236, 636	4, 449, 866	\$757, 308	2, 192, 169, 348	\$247, 913, 205
1882.....	16, 276, 691	3, 405, 070, 410	4, 339, 952	789, 844	1, 741, 819, 451	200, 069, 047
1883.....	16, 777, 993	2, 757, 544, 422	4, 081, 945	800, 532	2, 291, 313, 992	247, 772, 049
1884.....	17, 439, 612	2, 742, 966, 011	7, 019, 492	1, 379, 850	1, 863, 926, 466	197, 268, 523
1885.....	18, 300, 865	3, 182, 350, 531	5, 115, 680	954, 760	1, 893, 268, 732	202, 265, 183
1886.....	18, 454, 603	3, 157, 378, 443	5, 072, 334	672, 508	2, 059, 314, 405	205, 226, 332
1887.....	18, 641, 067	3, 406, 068, 167	3, 924, 531	533, 928	2, 170, 173, 701	206, 310, 995
1888.....	19, 058, 591	3, 437, 408, 499	5, 497, 592	744, 800	2, 264, 324, 798	223, 038, 208
1889.....	.....	3, 622, 827, 694	7, 973, 039	1, 194, 505	2, 385, 004, 628	237, 801, 398
1890.....	.....	4, 316, 043, 982	8, 606, 049	1, 392, 728	2, 472, 047, 957	251, 008, 318
1891.....	.....	4, 506, 531, 951	20, 908, 817	2, 823, 004	2, 907, 358, 795	290, 712, 898

WHEAT FLOUR.

Year.	Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.
1881.....	469, 616	\$12, 719	1, 557, 666, 096	\$45, 057, 718
1882.....	818, 496	25, 640	1, 160, 127, 920	36, 397, 417
1883.....	491, 568	13, 072	1, 804, 652, 752	54, 833, 602
1884.....	354, 760	8, 251	1, 793, 891, 960	51, 141, 021
1885.....	250, 684	4, 750	2, 087, 036, 420	52, 146, 336
1886.....	343, 000	6, 274	1, 603, 203, 756	38, 444, 599
1887.....	198, 548	3, 302	2, 257, 616, 004	51, 950, 082
1888.....	511, 560	13, 257	2, 345, 365, 204	54, 786, 801
1889.....	226, 576	5, 792	1, 837, 471, 188	45, 296, 783
1890.....	238, 924	5, 049	2, 397, 865, 372	57, 044, 005
1891.....	1, 648, 948	43, 180	2, 223, 483, 584	54, 705, 616

SOUTH AMERICA.

ARGENTINE REPUBLIC.

No official estimates of crop production are available for this country. The figures relating to trade are from *Estadística del Comercio y de la Navegacion de la República Argentina*.

In the chapter on the Argentine Republic, published in miscellaneous report, No. 2 of the Division of Statistics, U. S. Department of Agriculture, a tabulation of the acreage of the crops in that country in 1888 is presented. The statement is a tabulation from various official sources, and might be considered as official in the form in which it is presented. It is as follows:

	Acres.
Corn	2, 058, 603
Wheat.....	2, 036, 254
Oats.....	90, 589
Alfalfa	939, 292
Flax.....	289, 693
Vines.....	72, 500
Cane	51, 626
All other	300, 403
Total.....	5, 838, 960

No official statement of the yield per acre, or the aggregate yield has been made relative to the Argentine crops. A commercial estimate, which is accepted in that country as from an acknowledged authority, makes the wheat crop in 1888 19,690,575 bushels, and the corn crop 49,200,612 bushels.

In the statement of imports and exports in wheat it will be noticed that there are very wide fluctuations each year, especially in importation. So extreme are these variations that they apparently cast some discredit upon their correctness, but each item has been carefully verified by the official returns, and if any error exists it is in the original. Perhaps a more thorough acquaintance with production of the various Argentine crops and the necessities of consumption would readily explain what now appears difficult to understand. The foreign trade of the Republic in wheat has made rapid strides during the past decade, advancing from a little over 5,000 bushels in 1881 to more than 12,000,000 bushels in 1890. That the crop of corn is one of transcending impor-

tance in Argentine agriculture is shown by the fact that during the past ten years there has been an annual exportation of more than 9,000,000 bushels, or nearly three times as great as that of wheat. The extreme was reached in 1890, when the shipments amounted to 27,844,175 bushels. The production of barley is not sufficient to meet the demands, requiring a net importation of more than 1,000,000 bushels a year.

The trade in unwashed wool is a very large item in the foreign trade of the Republic. The average annual shipments for ten years is 266,590,503 pounds. During the three years, 1880 to 1882, inclusive, shipments of washed wool aggregating for the period 2,940,987 pounds are reported. It is probable that after that date, if any such shipments were made, they were included in the figures of unwashed wool, as no continuation of the trade is apparent in the official returns.

In the statement relative to flour the imports of wheat flour are given separately, a second table giving the imports of flour made from other cereals. No such distinction is made in the statement of exports, and it is probable that the figures of that trade, as presented, include flour from all cereals.

Imports and exports.

WHEAT AND CORN.

Year.	Wheat.				Corn.			
	Imports.		Exports.		Imports.		Exports.	
	B ushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1880.....	682,734	\$764,496	42,829	\$45,111	101	\$51	591,778	\$278,185
1881.....	421,757	162,903	5,772	10,722	10	11	986,251	522,121
1882.....	7,317	8,667	62,658	64,524	10	5	4,225,241	2,066,195
1883.....	8,439	9,198	2,232,329	2,345,128	.....	.....	733,594	359,756
1884.....	4	4	3,986,623	4,188,071	.....	.....	4,476,523	2,194,604
1885.....	613	644	2,854,109	3,029,845	.....	.....	7,789,309	3,818,689
1886.....	146	153	1,391,265	1,457,515	.....	.....	9,119,970	4,490,551
1887.....	1,559	1,638	8,739,987	9,181,623	102	37	14,245,035	6,983,595
1888.....	3,233	3,397	6,574,431	7,959,913	846	415	6,379,070	5,253,908
1889.....	112,105	117,771	837,982	1,540,570	.....	.....	17,030,168	12,523,501
1890.....	47,988	50,204	12,017,924	9,492,535	.....	.....	27,844,175	13,650,542

RYE AND BARLEY.

Year.	Rye.				Barley.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1880.....	25,543	\$34,893
1881.....	198	\$15	.....	.....	707,560	\$12,178	11,740	18,431
1882.....	328	\$456	277,034	7,565	50,525	31,198
1883.....	519	510	594,210	12,919	8,171	3,433
1884.....	98,942	9,126	16,652	6,997
1885.....	171,516	7,855	96,882	40,712
1886.....	177,940	6,269	40,247	16,910
1887.....	960,778	20,463	37,929	15,938
1888.....	3,126,401	44,239	10,782	6,365
1889.....	1,502,219	21,321	10,623	7,544
1890.....	2,926,064	40,330	60,104	13,386

Imports and exports—Continued.

POTATOES AND TOBACCO.

Year.	Potatoes.		Tobacco.			
	Exports.		Imports.		Exports.	
	Bushels.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	10,207	\$13,179	5,378,477	\$668,203	403,702	\$23,125
1881.....	2,704	3,476	5,527,483	633,633	556,803	48,256
1882.....	12,081	9,834	8,223,156	772,039	561,154	32,708
1883.....	50,801	53,463	10,253,376	970,113	8,400	368
1884.....	11,403	11,980	7,223,156	815,560	.....	.....
1885.....	17,761	18,658	8,506,074	930,531	6,389	280
1886.....	2,665	2,799	13,347,449	1,201,712	.....	.....
1887.....	7,027	7,382	10,939,794	1,104,928	.....	.....
1888.....	9,147	9,609	10,137,062	1,008,703	230,315	10,081
1889.....	13,501	14,183	9,881,791	1,052,715	439,328	28,845
1890.....	32,009	42,033	15,515,757	1,679,863	7,701	506

BUTTER, CHEESE, AND WOOL (UNWASHED).

Year.	Butter—imports.		Cheese.				Wool (unwashed)—exports.	
			Imports		Exports.			
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	.....	.....	1,252,458	\$237,631	.....	.....	214,167,633	\$25,651,209
1881.....	.....	.....	1,420,122	232,943	16,980	\$1,471	229,007,135	29,366,909
1882.....	.....	.....	1,684,478	343,642	1,235	95	244,732,196	27,996,425
1883.....	.....	.....	1,655,981	403,782	10,439	914	261,032,726	28,564,886
1884.....	.....	.....	2,299,773	580,193	.....	.....	252,084,211	30,885,615
1885.....	2,434	\$552	2,224,671	574,486	32,253	2,824	283,055,790	34,691,857
1886.....	19,398	4,415	2,329,413	606,734	19,493	2,500	291,294,891	30,601,698
1887.....	40,340	9,183	3,743,325	1,036,052	9,799	858	240,663,799	31,603,089
1888.....	32,661	7,434	3,480,880	963,277	20,318	1,778	290,441,365	43,288,555
1889.....	38,583	8,782	3,646,578	921,268	13,955	1,222	312,555,919	54,724,932
1890.....	39,517	8,996	2,620,509	573,178	67,917	8,919	261,036,995	34,278,422

FLOUR.

Year.	Wheat flour.				Flour of other cereals—imports.	
	Imports.		Exports.			
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	.....	.....	3,137,776	\$97,171	.....	.....
1881.....	.....	.....	2,838,193	102,128	.....	.....
1882.....	.....	.....	1,209,838	37,816	.....	.....
1883.....	.....	.....	10,679,931	331,091	.....	.....
1884.....	.....	.....	8,232,834	252,257	.....	.....
1885.....	5,900	\$207	16,417,826	503,050	207,742	\$16,580
1886.....	31,288	2,273	11,601,095	350,109	151,747	16,424
1887.....	11,530	403	11,907,256	364,843	235,028	21,221
1888.....	26,592	931	14,092,778	616,870	188,242	14,595
1889.....	134,353	4,884	7,409,387	492,973	196,683	13,840
1890.....	49,138	2,058	26,494,607	579,863	161,372	14,514

CHILE.

No official data of acreage and production are available for Chile. The trade statements presented below are taken from the official volume *Estadística Comercial de la República de Chile* for each year.

Imports of wheat into Chile are fitful and do not represent any necessary or settled trade. In exports, however, this grain is the most prominent agricultural product shipped abroad, the average shipments

for ten years aggregating nearly 4,000,000 bushels, at an annual value of more than \$4,500,000. The bulk of this exportation goes to the United Kingdom, but as a source of wheat supply Chile is not an important country, and her position in this trade appears to be changing. During the first five years of the decade presented the average annual exportation was about 5,000,000 bushels, while during the last half it was only about 3,500,000 bushels. Next to wheat, barley is the most important cereal in the foreign trade of this country, the average exports for ten years amounting to more than half a million bushels per annum.

In the tobacco tabulation the figures given are stated in the official report as including leaf tobacco and also manufactured chewing tobacco. In making any comparisons this fact must be borne in mind, as it is impossible to separate the two classes. In 1880, for some reason which is not explained in the report for that year, there was a very heavy importation of tobacco, more than equaling the total amount imported in the nine subsequent years. With that exception the annual imports would average only something more than 160,000 pounds per annum. In dairy products the imports given as butter really represent something more than that product. Under the head of "mantequilla," is included a compound which is made by mixing or stirring of sugar with butter. It is not clear that the same comment would apply to the statement of exports. No imports of wool of any consequence appear, but there is an important and increasing trade in wool exports. The statements relative to imports and exports include not only flour from wheat but from all other cereals. A very sharp decline in the exports of flour is noticeable between the beginning and close of the period presented. In the first five years, or from 1880 to 1884, inclusive, the annual exports probably represented more than 600,000 bushels of wheat each year, but in the last five years, or from 1885 to 1889, inclusive, reckoning on the same basis, it represents a little more than 200,000 bushels. This falling off may be the result of an increased consumption at home, or a decline in the prominence of the milling industry.

Imports and exports.

WHEAT.

Year.	Wheat.			
	Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.
1880.....	13, 779	\$20, 520	5, 224, 277	\$6, 484, 487
1881.....	30, 040	44, 736	3, 294, 732	4, 302, 619
1882.....			4, 742, 003	6, 064, 205
1883.....			4, 533, 730	5, 716, 026
1884.....	37	44	3, 356, 481	3, 963, 202
1885.....			3, 944, 293	3, 622, 324
1886.....	1, 554	1, 823	4, 486, 465	4, 459, 096
1887.....	559	886	4, 576, 454	5, 164, 960
1888.....	58	72	3, 412, 921	4, 148, 441
1889.....	59, 383	118, 894	1, 825, 994	2, 658, 676

Imports and exports—Continued.

CORN AND BARLEY.

Year.	Corn.				Barley.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1880.....			27,917	\$19,396			1,035,274	\$719,543
1881.....	82	\$134	8,609	6,391			144,443	142,407
1882.....	274	366	6,414	4,463			149,164	110,471
1883.....	148	264	6,740	4,750			750,571	522,151
1884.....	208	482	5,201	4,819			874,500	595,521
1885.....	1,555	360	17,111	11,910			350,982	197,932
1886.....			5,062	3,518		620	423,375	311,629
1887.....			2,256	1,570	115,439	114,136	185,458	149,334
1888.....			1,621	1,125			1,114,265	705,411
1889.....			4,619	4,279			319,072	215,413

POTATOES AND TOBACCO.

Year.	Potatoes.		Tobacco.			
	Exports.		Imports.		Exports.	
	Bushels.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	218,019	\$111,509	1,701,563	\$521,027	44	\$36
1881.....	127,622	69,134	136,092	37,075		
1882.....	103,025	58,668	209,102	106,756		
1883.....	162,551	91,592	255,586	146,665	34,083	10,700
1884.....	92,132	52,730	211,891	89,515	38,437	9,540
1885.....	108,796	54,500	133,067	61,274	6,076	637
1886.....	121,509	60,415	171,533	51,819	10,170	1,120
1887.....	47,966	23,810	153,453	45,445	10,990	1,183
1888.....	51,695	38,613	114,677	32,417	3,750	322
1889.....	127,039	63,062	102,986	29,718	2,623	260

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	9,270	\$2,017	78,003	\$29,948	48,999	\$10,833	236,417	\$39,249
1881.....	16,892	4,206	31,034	11,964	130,411	26,930	306,091	44,702
1882.....	48,279	8,867	50,690	19,690	121,396	25,492	117,607	18,121
1883.....	23,135	4,502	86,625	33,440	148,822	28,058	489,939	81,086
1884.....	23,389	4,414	100,644	35,418	228,167	37,587	444,732	64,477
1885.....	4,777	793	159,699	39,646	139,717	24,199	295,509	30,578
1886.....	2,317	423	167,988	41,892	133,109	22,498	340,126	35,171
1887.....	5,633	579	59,346	14,730	140,122	23,329	122,036	12,621
1888.....			56,462	15,176	198,835	32,806	135,114	13,706
1889.....			99,328	32,872	176,132	29,148	323,029	53,451

WOOL AND FLOUR.

Year.	Wool.				Flour.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	9,116	\$1,364	4,804,123	\$463,151	27,017	\$2,145	29,830,394	\$926,193
1881.....	49,941	10,560	4,089,879	372,817	86,176	4,396	41,750,851	1,580,089
1882.....	12,057	2,432	3,700,818	354,210	158,945	7,023	34,447,984	1,169,919
1883.....	558	92	4,630,917	457,475	44,286	2,923	22,282,589	751,065
1884.....	3,966	359	4,412,062	395,563	51,572	3,508	14,621,342	516,589
1885.....			3,584,863	324,493	40,765	3,435	12,433,139	336,896
1886.....			6,323,952	735,279	29,612	2,456	15,259,463	371,168
1887.....			3,763,497	437,340	40,450	2,699	6,709,453	179,066
1888.....			4,054,041	444,571	48,662	3,044	6,950,168	214,772
1889.....			5,868,266	606,698	55,203	3,595	6,924,491	257,767

PARAGUAY.

No official statements for either acreage or production are available for this country. The statements of trade which are presented are from *Anuario Estadístico de la República del Paraguay*.

No record of exports of wheat appear in the official statements and imports are given only for the three years 1885 to 1887, inclusive. The trade is very small, averaging only 51,000 bushels for that period. The trade in corn is insignificant, and the average importation of potatoes amounts to only 1,382 bushels for the period 1881 to 1887, inclusive. No imports of tobacco appear, but there is an export trade amounting to nearly 7,000,000 pounds per annum, and ranging from a little more than 3,000,000 in 1884 to a little more than 10,000,000 in 1886. Both butter and cheese are imported, but if there are any shipments of either article that fact does not appear. In addition to the importation of wheat already noted, there is a net importation of flour amounting to 1,500,000 pounds. The grains from which this flour is made are not specified, but it may be assumed that the larger part of it is wheat flour. This would amount to perhaps 34,000 bushels of wheat in addition to that imported in the form of grain.

Imports and exports.

WHEAT, CORN, AND POTATOES.

Year.	Wheat—imports.		Corn.				Potatoes—imports.
			Imports.		Exports.		
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.
1881.....					276	\$151	1,400
1882.....					119	96	1,561
1883.....			7,719	\$3,542	513	280	1,599
1884.....					70	31	1,500
1885.....	6,476	\$5,605			579	258	666
1886.....	77,794	95,402					900
1887.....	69,760	82,815					2,049

TOBACCO, BUTTER, CHEESE, AND FLOUR.

Year.	Tobacco—exports.		Butter—imports.	Cheese—imports.	Flour.		
	Pounds.	Value.			Imports.		Value.
			Pounds.	Pounds.	Pounds.	Pounds.	
1881.....	8,400,750	\$553,105	3,567	15,467	1,290,344		
1882.....	5,120,700	337,147	4,735	5,137	1,680,802		
1883.....	7,258,800	471,532	3,611	3,984	2,177,016		
1884.....	3,146,525	202,888	3,097	6,539	2,047,456		
1885.....	5,358,100	340,775	2,443	41,372	1,908,419		
1886.....	10,400,150	624,841	3,435	31,193	385,225	26,931	\$660
1887.....	8,794,600	511,612	4,766	40,212	1,338,862	169,754	4,030

URUGUAY.

No official estimates of crop production of Uruguay are attainable. The figures of trade which are presented are from the *Anuario Estadístico de la República Oriental del Uruguay*.

Like most of the South American countries, the statistical information concerning Uruguay is very meager and even the trade returns are somewhat unsatisfactory in character. The very wide fluctuations which appear from year to year in both statements of imports and exports are calculated, perhaps, in some cases, in absence of any reasonable explanation to be gathered from the publication itself, to cast some doubt upon the correctness of the tabulation or the form in which the data are presented. The figures which are given, however, have been carefully verified by the official publication in each case. As an instance of the very wide fluctuations, for which there appears no adequate explanation, it will be seen that in 1888 there was apparently an importation of only 7 bushels of wheat, while in the next year, 1889, the importation rose to 1,362,377 bushels. It is possible, perhaps, that this large importation was made under some special arrangement by which it went to the Province of Rio Grande do Sul, in Brazil, which adjoins Uruguay, but as there is no positive evidence upon this point it must necessarily be credited as imported for the use of Uruguay. In maize the same fluctuations in imports appear, but the exports are more uniform. Uruguay appears as having a considerable balance in her corn trade in favor of exportation. The importation of tobacco amounts to nearly 3,000,000 pounds per annum, but so far as the trade returns go there are no shipments, either of domestic tobacco or of foreign tobacco reëxported. The compilation of imports and exports of flour shows some very marked peculiarities, which can hardly be understood, in view of the fact that no explanation is tendered in the official statement. Averaging the period 1881 to 1890, it appears that Uruguay has an annual exportation of nearly 10,000,000 pounds of flour, but an examination of the period in detail shows that this exportation of the decade is concentrated very largely in the years 1885, 1886, 1887, and 1888, while the exports are equally concentrated in the years 1889 and 1890. A reference to the imports and exports of wheat will show that in the period 1885 to 1888, inclusive, the balance of trade in the grain was largely in favor of exportation. The same fact is apparent in flour, indicating that during that period the domestic supply was largely in excess of the demands for domestic consumption. The heavy excess of importation of flour in 1889 and 1890 accompanies the remarkable importation of wheat during the same years, and the two are undoubtedly the result of the same cause.

Imports and exports.

WHEAT AND CORN.

Year.	Wheat.				Corn.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1880.....	183,363	\$263,055	68,099	\$81,168	794	\$450	41,401	\$36,802
1881.....	4,839	5,741	88,221	95,756	12	3	440,856	259,866
1882.....	324,218	447,964	6,133	6,163	623	405	504,535	249,765
1883.....	44,527	56,647	3,479	2,447	134,259	92,864	45,233	11,193
1885.....	15,286	15,442	2,922	2,569	6,259	3,916	516,082	116,088
1885.....	666	652	73,849	65,522	718	194	189,098	88,836
1886.....	48,899	47,975	127,120	92,811	-----	-----	140,132	29,357
1887.....	6	6	99,863	87,420	657	262	72,220	14,916
1888.....	7	6	372,855	290,483	119	37	732,912	148,139
1889.....	1,362,377	1,560,407	76,998	65,235	39,116	13,714	301,633	55,338
1890.....	729,977	739,260	670,694	644,907	138,139	65,987	170,553	61,420

BARLEY AND POTATOES.

Year.	Barley.		Potatoes.			
	Imports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1880.....	-----	-----	21,221	\$23,931	160	\$173
1881.....	-----	-----	19,750	22,972	60,958	68,269
1882.....	-----	-----	31,789	35,470	141	158
1883.....	21,439	\$15,344	77,599	85,736	423	468
1884.....	10,429	8,312	27,735	27,271	913	1,001
1885.....	1,082	1,015	64,057	62,863	-----	-----
1886.....	17,433	13,253	4,099	4,124	5,688	5,813
1887.....	4,136	3,149	18,608	16,243	-----	-----
1888.....	13,823	9,512	4,746	4,260	762	682
1889.....	6,146	4,151	122,425	100,817	2,222	2,056
1890.....	12,531	10,774	206,758	176,737	5	5

TOBACCO AND CHEESE.

Year.	Tobacco.		Cheese.			
	Imports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	3,372,236	\$165,933	381,775	\$59,620	3,038	\$230
1881.....	1,893,943	249,242	1,024,594	57,055	154	12
1882.....	3,120,499	426,680	304,760	47,752	628	47
1883.....	2,785,217	311,842	394,758	60,794	3,730	274
1884.....	3,518,612	376,869	403,347	62,023	4,932	360
1885.....	2,925,368	343,633	399,317	61,675	926	19
1886.....	2,895,694	313,236	322,548	46,354	4,991	340
1887.....	3,463,193	324,333	593,004	76,803	531	35
1888.....	2,613,126	288,548	598,999	77,880	8,322	528
1889.....	2,726,984	284,677	492,993	63,667	141,445	8,726
1890.....	3,124,059	300,824	560,844	72,812	221,060	14,000

Imports and exports—Continued.

WOOL AND FLOUR.

Year.	Wool.		Flour.			
	Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	41,371,698	\$3,421,948	422,139	\$10,680	2,046,839	\$60,891
1881.....	35,675,884	3,313,536	46,724	1,158	4,791,535	100,169
1882.....	46,816,392	4,349,688	1,717,968	61,416	2,171,328	43,733
1883.....	70,122,848	6,456,992	84,152	2,049	5,092,566	105,051
1884.....	59,081,922	5,400,115	155,155	4,405	2,582,733	52,878
1885.....	64,735,101	5,834,007	52,681	1,425	13,613,242	274,908
1886.....	69,827,713	4,316,270	63,334	1,612	26,329,247	503,556
1887.....	57,778,648	3,633,682	23,274	459	19,116,750	356,094
1888.....	84,041,453	5,303,959	1,896	55	34,755,135	617,491
1889.....	100,162,758	6,221,954	8,199,410	212,099	1,833,564	31,649
1890.....	48,367,859	5,490,336	7,258,456	158,026	1,224,567	27,630

AMERICAN ISLANDS AND COLONIES.

BRITISH POSSESSIONS.

The source from which the following data relative to production and trade in agricultural products for the British Possessions in America and adjacent islands of the sea are derived is the official British publication, *Colonial and Other Possessions of the United Kingdom*, Nos. 17, 18, and 19, covering the period 1880 to 1887, inclusive, and supplemented in some cases by data drawn from the abstract of this publication, which is published in advance of the full volume. The original publication professes to be only a synopsis of the statistics of the colonies, and only the principal items are given in detail. It does not follow, therefore, that because no statement is made of imports or of exports, or of production in any given year, there were none, but rather that no data are available. It might be pointed out that as a general rule the statement of trade in tobacco does not specify as to whether the product is leaf or leaf and manufactured tobacco. As in most cases tobacco is imported for domestic consumption almost entirely, it will not be rash to assume that the statements include both the raw and manufactured product.

ANTIGUA.

Imports of corn, tobacco, butter, and flour.

Year.	Corn.		Tobacco.		Butter.		Flour.	
	Bushels.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	48,735	\$25,865	02,946	\$5,105	68,965	\$9,787	3,028,592	\$82,716
1881.....	45,987	24,405	60,960	4,944	73,605	10,448	3,598,952	98,294
1882.....	41,551	29,798	73,488	6,706	73,391	11,903	3,461,360	111,725
1883.....	43,808	31,000	112,026	10,220	82,429	13,373	3,402,364	98,561
1884.....	42,579	30,143	53,155	4,852	78,408	12,721	3,687,152	96,128
1885.....	43,333	26,459	91,684	9,295	70,891	15,218	3,876,488	91,661
1886.....	42,260	23,145	67,106	6,545	66,593	11,884	3,323,572	72,326
1887.....	35,072	19,646	54,023	4,652	78,844	13,509	3,448,620	69,138

BAHAMAS.

Imports of butter and flour, and exports of cotton.

Year.	Butter.		Flour.		Cotton.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	73,926	\$19,043	4,540,536	\$111,516	27,921	\$3,110
1881.....	76,929	18,974	4,824,932	124,587	50,178	4,779
1882.....	77,215	20,386	4,681,656	118,606	72,698	8,064
1883.....	99,883	23,705	6,426,644	151,660	86,349	9,276
1884.....	90,105	21,145	4,427,052	95,568	86,259	8,288
1885.....	103,236	21,315	5,842,172	120,499	38,648	3,027
1886.....	97,832	19,524	4,960,564	100,892	77,615	6,195
1887.....	101,052	22,347	5,227,908	100,240	54,891	4,302

BARBADOES.

Imports of butter and flour (wheat and rye).

Year.	Butter.		Flour (wheat and rye).	
	Pounds.	Value.	Pounds.	Value.
1880.....			760,384	\$185,019
1881.....			993,422	241,724
1882.....			825,517	200,870
1883.....			984,810	239,626
1884.....			958,882	233,319
1885.....			895,389	163,402
1886.....			893,083	162,984
1887.....			934,637	170,566
1888.....			583,825	106,542
1889.....			556,924	101,637
1890.....			1,037,860	189,404

BERMUDA.

Imports of corn and oats, and exports of potatoes.

Year.	Corn.		Oats.		Potatoe s— value.
	Bushels.	Value.	Bushels.	Value.	
1880.....					\$101,038
1881.....					112,372
1882.....	21,837	\$17,972	36,885	\$21,028	178,795
1883.....	20,170	13,446	44,100	18,614	138,457
1884.....	33,396	14,891	52,330	18,989	115,808
1885.....	24,608	13,500	53,476	18,483	75,771
1886.....	26,927	13,685	56,773	19,826	73,844
1887.....	25,897	13,675	62,464	20,678	135,152

Imports of butter, cheese, and flour.

Year.	Butter.		Cheese.		Flour.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	152,096	\$36,270	59,696	\$8,035	3,218,516	\$97,856
1881.....	127,792	28,659	47,040	6,219	2,843,960	91,850
1882.....	141,008	33,082				
1883.....	148,288	33,267				
1884.....	177,072	39,462				
1885.....	166,656	35,535	60,368	6,424		
1886.....	197,904	39,608	70,784	8,254		
1887.....	127,008	41,244	72,016	9,193		

DOMINICA.

Imports of tobacco, butter, and flour.

Year.	Tobacco.		Butter.		Flour.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	40,600	\$15,193	41,644	\$8,838	1,457,848	\$43,721
1881.....	49,652	5,713	40,834	8,842	1,227,548	42,908
1882.....	126,420	14,098	43,585	7,071	1,036,448	38,601
1883.....	99,291	11,071	49,063	7,957	1,230,880	38,202
1884.....	197,994	22,590	39,264	6,365	1,888,068	46,879
1885.....	279,421	28,328	35,965	5,830	1,192,464	29,608
1886.....	150,581	16,794	36,314	5,898	1,026,648	25,491
1887.....	166,465	16,488	35,541	4,287	1,080,940	26,839

GRENADA.

In the case of this colony it will be seen that what purports to be an estimate of the production of cotton, during the years 1880 to 1887, is given. In the main this estimate coincides with the record of exportation, and it is more than likely that it is not the result of an independent investigation. In 1884, 1885, and 1887 the figures in the two statements are identical, but for some reason entirely unexplained in the original document the exportation in 1886 was reported as very small, only about one-fifth of the reported production for that year.

Imports of tobacco, butter, and flour.

Year.	Tobacco.		Butter.		Flour.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	66,304	\$7,348	92,644	\$18,872	2,242,828	\$67,513
1881.....	76,608	9,626	92,009	18,721	3,141,096	107,238
1882.....	.....	.....	101,903	17,807	2,288,104	76,978
1883.....	.....	.....	109,161	18,167	2,417,464	73,888
1884.....	.....	.....	137,225	20,415	2,926,868	80,263
1885.....	.....	.....	125,650	17,772	3,463,908	94,104
1886.....	.....	.....	132,015	17,476	3,087,784	80,142
1887.....	.....	.....	147,130	19,583	3,107,580	77,295

Production and exports of cotton.

Year.	Cotton.			
	Production.		Exports.	
	Acres.	Pounds.	Pounds.	Value.
1880.....	1,063	116,756	.....	.....
1881.....	1,373	164,328	.....	.....
1882.....	1,303	.....	340,032	\$27,578
1883.....	1,591	333,616	290,640	25,262
1884.....	1,593	367,920	367,920	31,978
1885.....	1,592	305,648	305,648	26,556
1886.....	1,523	275,856	55,888	4,857
1887.....	1,610	450,688	450,688	39,166

GUIANA.

The importation of potatoes into this colony is recorded in barrels, and in order that the statements may be uniform the barrels have been reduced to bushels at the rate of 2½ bushels to the barrel.

Imports of oats, potatoes, and tobacco.

Year.	Oats.		Potatoes.		Tobacco.	
	Bushels.	Value.	Bushels.	Value.	Pounds.	Value.
1880.....			162,910	\$122,222	691,352	\$87,709
1881.....			127,158	100,094	776,388	68,447
1882.....	109,086	\$65,620	165,113	98,255	971,747	66,092
1883.....	149,531	102,104	184,558	121,317	860,153	104,411
1884.....	63,462	42,543	209,783	124,714	603,261	71,046
1885.....	96,639	61,751	180,753	100,167	600,039	66,369
1886.....	71,563	44,733	91,735	43,030	612,416	61,610
1887.....	101,667	68,978	126,735	78,964	608,490	55,429

Imports of butter and cheese.

Year.	Butter.		Cheese.	
	Pounds.	Value.	Pounds.	Value.
1880.....	610,091	\$134,384	236,068	\$31,102
1881.....	710,125	149,446	217,574	35,175
1882.....	737,241	153,786	259,895	35,813
1883.....	729,231	152,735	282,992	39,643
1884.....	715,080	134,437	243,170	32,732
1885.....	680,894	123,322	275,019	35,594
1886.....	665,769	107,365	226,135	29,647
1887.....	709,098	112,942	254,262	38,037
1888.....	598,522	108,348		
1889.....	519,927	92,264		
1890.....	638,194	111,248		

Imports and exports of flour.

Year.	Imports.		Exports.	
	Pounds.	Value.	Pounds.*	Value.
1880.....	23,582,916	\$640,446	3,517,416	\$124,816
1881.....	25,982,740	763,953	2,657,956	93,023
1882.....	20,331,864	613,836		
1883.....	26,936,084	612,288		
1884.....	26,532,128	531,500		
1885.....	27,764,968	623,501		
1886.....	24,380,440	495,293		
1887.....	28,023,492	547,068		
1888.....	29,450,372	558,630		
1889.....	32,606,108	668,151		
1890.....	31,451,140	656,836		

JAMAICA.

Acreage and imports of corn and tobacco.

Year.	Corn.			Tobacco.		
	Area (acres).	Imports.		Area (acres).	Imports.	
		Bushels.	Value.		Pounds.	Value.
1880.....	545	64,148	\$60,530	202		
1881.....	716	84,904	81,782	408		
1882.....	861			345	110,874	\$21,359
1883.....	862			225	127,275	26,274
1884.....	839			60	137,362	25,067
1885.....	906	50,555	47,701	86		
1886.....	729	64,769	61,114	50		
1887.....	703	86,400	81,524	112		

Imports of butter and flour.

Year.	Butter.		Flour.	
	Pounds.	Value.	Pounds.	Value.
1880.....	524,316	\$106,314	21,903,588	\$806,549
1881.....	612,636	130,437	30,507,596	1,060,736
1882.....	503,973	112,436	18,723,096	674,190
1883.....	621,345	138,603	20,727,392	720,442
1884.....	614,752	137,931	20,680,548	693,316
1885.....	680,034	137,892	25,130,924	810,861
1886.....	701,476	142,233	26,215,196	743,139
1887.....	648,754	131,537	22,576,064	588,589
1888.....	668,192	135,522	26,256,552	685,047
1889.....	625,968	114,402	30,119,320	786,071
1890.....	753,984	137,629	35,106,148	915,029

MONTERRAT.

Imports of flour.

Year.	Pounds.	Value.	Year.	Pounds.	Value.
1880.....	549,976	\$17,889	1884.....	456,288	\$14,371
1881.....	477,064	16,755	1885.....	523,516	14,410
1882.....	502,544	18,147	1886.....	385,532	11,689
1883.....	423,360	14,668	1887.....	476,084	12,507

NEWFOUNDLAND.

Imports of tobacco, butter, and flour.

Year.	Tobacco.		Butter.		Flour.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	659,423	\$66,652	2,072,000	\$315,151	58,306,864	\$1,508,244
1881.....	385,662	38,868	2,314,704	352,071	58,576,168	1,515,210
1882.....	237,011	23,683	2,426,480	368,900	70,813,820	1,831,776
1883.....	377,320	38,062	2,775,136	422,085	71,724,044	1,855,314
1884.....	194,130	19,417	2,046,128	311,223	64,084,356	1,657,692
1885.....	477,004	48,052	2,133,712	324,538	59,524,024	1,539,727
1886.....	467,519	33,198	1,866,368	283,869	73,302,824	1,516,920
1887.....	265,978	18,889	1,563,296	237,776	67,108,636	1,388,737
1888.....			1,580,320	240,342	76,653,444	1,294,036
1889.....			1,795,584	273,205	64,365,616	1,331,786
1890.....			1,695,904	257,920	62,064,772	1,284,172

ST. CHRISTOPHER—NEVIS.

Imports of corn, oats, tobacco, butter, cheese, and flour.

Year.	Corn.		Oats.		Tobacco.	
	Bushels.	Value.	Bushels.	Value.	Pounds.	Value.
1880.....					92,209	\$14,585
1881.....					73,690	11,655
1882.....	19,446	\$19,320	10,627	\$12,648	73,893	10,740
1883.....	20,066	18,936	7,184	8,473	75,600	12,351
1884.....	22,233	20,979	9,247	10,906	73,075	10,667
1885.....	15,402	7,597	6,814	8,039		
1886.....	19,284	18,955	6,248	7,368	77,314	11,285
1887.....	16,668	16,789	5,683	6,701	75,671	11,047

Year.	Butter.		Cheese.		Flour.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	80,755	\$14,736	37,239	\$6,039	4,556,412	\$139,177
1881.....	87,615	15,991	24,566	3,986	4,586,988	162,084
1882.....	75,006	15,208			5,154,016	174,503
1883.....	138,695	16,872			5,032,692	156,195
1884.....	177,951	28,868			5,485,648	170,259
1885.....	78,140	12,677			4,801,608	149,027
1886.....	116,546	18,906			4,380,012	135,941
1887.....	122,243	19,962			4,406,472	136,763

ST. LUCIA.

Imports of tobacco, butter, and flour.

Year.	Tobacco.		Butter.		Flour.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	78,162	\$6,886	82,208	\$13,689	1,620,348	\$53,643
1881.....	65,510	6,944	82,544	14,371	2,346,512	75,752
1882.....	69,644	7,290	67,407	12,332	1,747,340	58,145
1883.....	71,861	7,373	90,969	16,463	1,860,040	47,254
1884.....	60,907	9,300	83,444	15,490	2,063,684	54,227
1885.....	65,120	6,842	85,613	12,517	1,778,308	43,750
1886.....	60,929	5,577	94,282	12,648	1,824,760	41,998
1887.....	55,484	5,334	90,891	12,531	1,780,072	42,129

ST. VINCENT.

Imports of tobacco, butter, and flour.

Year.	Tobacco.		Butter.		Flour.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....			61,376	\$13,962	1,820,056	\$51,926
1881.....			66,416	15,130	1,810,844	57,892
1882.....			76,529	17,193	1,602,692	50,626
1883.....			79,654	16,741	1,680,700	52,553
1884.....			70,325	13,860	1,798,888	50,850
1885.....	41,587	\$4,896	70,781	12,721	1,754,788	45,716
1886.....	46,256	4,867	76,002	12,653	1,628,564	42,095
1887.....	40,840	3,810	55,127	9,086	1,626,996	40,309

TOBAGO.

Imports of tobacco and flour.

Year.	Tobacco.		Flour.	
	Pounds.	Value.	Pounds.	Value.
1880.....	16,515	\$2,068	570,752	\$21,943
1881.....	18,182	2,278	1,007,048	36,523
1882.....	21,087	2,716	663,068	25,067
1883.....	19,653	2,784	620,928	21,666
1884.....	18,879	2,594	600,544	19,369
1885.....	16,800	2,453	673,260	20,488
1886.....	14,231	2,239	397,684	11,641
1887.....	16,175	2,029	326,732	8,979

TRINIDAD.

Imports of tobacco and butter.

Year.	Tobacco.		Butter.	
	Pounds.	Value.	Pounds.	Value.
1880.....	1,333,349	\$127,001	693,074	\$132,233
1881.....	916,852	76,633	811,831	152,555
1882.....	790,761	82,234	616,593	126,845
1883.....	1,138,951	84,030	679,654	131,177
1884.....	744,338	73,562	873,973	184,343
1885.....	637,063	65,231	632,375	131,405
1886.....	415,128	43,492	754,914	155,597
1887.....	539,259	50,870	665,953	137,751

TURK'S ISLANDS.

Imports of butter and flour.

Year.	Butter.		Flour.	
	Pounds	Value.	Pounds.	Value.
1880.....	12,410	\$3,163	529,200	\$16,799
1881.....	17,050	3,971	513,912	16,298
1882.....	.....	.....	540,764	17,062
1883.....	.....	.....	506,072	14,054
1884.....	.....	.....	473,536	11,879
1885.....	.....	.....	521,752	12,619
1886.....	.....	.....	572,320	12,653
1887.....	.....	.....	484,708	10,020

VIRGIN ISLAND.

Imports of flour (wheat and rye).

Year.	Pounds.	Value.	Year.	Pounds.	Value.
1880.....	239,316	\$11,859	1885.....	291,060	\$14,424
1882.....	277,340	13,101	1886.....	158,760	7,874
1883.....	228,928	11,412	1887.....	179,732	5,582
1884.....	305,956	14,960			

DUTCH POSSESSIONS.

The Dutch possessions in America for which data are available include only Dutch Guiana and the island of Curaçao. The data presented is drawn from the official publication, *Bijdragen van het Statistisch Instituut*, 1888.

CURAÇAO.

In the statement of flour which is given the product of various cereals is included. The production of wool for the period 1882 to 1886, inclusive, averages 12,074 pounds, while the exportation for the period 1885 to 1889 inclusive, averages 12,686 pounds. The similarity of the figures in the two statements for 1885 indicate that the production is not an independent estimate, but rather a statement which is made up from the export records.

Production, imports, and exports.

Year.	Corn.		Flour— imports.	Butter— produc- tion.	Cheese.		Wool.		Tobac- co—im- ports.
	Produc- tion.	Im- ports.			Produc- tion.	Imports	Produc- tion.	Export.	
	<i>Bushels.</i>	<i>Value.</i>	<i>Value.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Value.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Value.</i>
1882.....	9,758	.....	.....	1,301	3,269	.....	15,104	.....	.....
1883.....	1,048	.....	.....	2,231	4,354	.....	13,241	.....	.....
1884.....	8,471	\$14,332	\$137,591	9,879	15,113	\$8,327	15,531	.....	\$38,228
1885.....	370	50,104	176,293	2,892	7,180	10,802	10,913	10,913	24,958
1886.....	2,369	9,631	136,887	3,219	11,828	9,320	5,580	11,091	17,716
1887.....	.....	.....	.....	.....	.....	.....	.....	14,339	.....
1888.....	.....	.....	.....	.....	.....	.....	.....	19,372	.....
1889.....	.....	.....	.....	.....	.....	.....	.....	7,716	.....

GUIANA.

Cotton is grown to some extent in this colony, but the figures of production, which are presented in the final statement, are so utterly improbable, in view of the export showing, that they have been omitted. The production of wheat appears to have been quite uniform until 1886, when it almost doubled in a single year.

Production of wheat and exports of cotton.

Year.	Wheat—	Cotton.	
		Pounds.	Value.
	<i>Bushels.</i>		
1880.....	5,184	38,792	\$4,202
1881.....	4,811	.....	.....
1882.....	4,492	4,616	303
1883.....	4,732	.....	.....
1884.....	4,925	1,490	82
1885.....	6,373	1,056	87
1886.....	11,718	780	85
1887.....	.....	.....	.....
1888.....	.....	14,098	773

FRENCH POSSESSIONS.

The data presented relative to French Possessions in America is drawn from *Statistiques Coloniales* for each year, and the information given in the introduction to the statistics of the French Possessions in Asia should be noted in connection with the statements which follow.

GUADELOUPE.

Production, imports, and exports.

CORN.

Year.	Production.		Imports.		Exports.	
	Bushels.	Bushels.	Bushels.	Value.	Bushels.	Value.
1882			17,011	\$20,424		
1883	16,738		18,293	20,257		
1884	19,970		15,890	18,333	51	\$54
1885	6,716		20,297	22,507	380	390
1886	6,794		16,727	16,088	284	290
1887	7,314		1,157	19,371	187	167
1888	5,730		22,150	22,507	777	714
1889			23,756	22,163		

OATS.

Year.	Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.
1882	91,159	\$46,431	426	463
1883	93,810	46,234	709	647
1884	69,993	65,531		
1885	53,793	49,799		
1886	72,634	53,705	568	\$431
1887	59,568	53,283	196	173
1888	80,990	71,153	335	567
1889	90,723	70,886		

POTATOES.

Year.	Production.		Imports.		Exports.	
	Bushels.	Bushels.	Bushels.	Value.	Bushels.	Value.
1882			15,872	\$7,920		
1883	49,269		2,780	4,635		
1884	43,264		14,621	21,941	12	\$21
1885	46,527		16,401	21,652	11	20
1886	75,903		14,811	15,170	365	293
1887	78,524		15,640	14,979	10	14
1888	39,270		15,770	22,996	134	70
1889			20,143	21,327	465	290

TOBACCO.

Year.	Production.		Imports.		Exports.	
	Acres.	Pounds.	Pounds.	Value.	Pounds.	Value.
1882			351,255	\$49,987	1,764	\$255
1883	17	8,245	460,473	55,546	34,654	4,531
1884	82	52,227	217,151	28,684	14,281	1,876
1885	82	25,827	400,097	52,645	3,395	440
1886	54	27,701	201,904	27,046		
1887	77	32,441	345,549	45,190	6,693	878
1888	57	27,271	361,583	45,778	375	49
1889	64	30,622	427,492	56,026	21,067	2,804

Production, imports, and exports—Continued.

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1882.....	530,936	\$134,793	2,240	\$493	223,668	\$34,266	.....	.....
1883.....	432,368	109,177	8,047	8,047	185,497	28,634	.....	.....
1884.....	456,734	114,161	5,093	1,272	127,135	27,324	9	\$2
1885.....	414,445	83,609	7,829	2,019	113,729	21,539	1,065	185
1886.....	528,524	90,759	8,400	1,077	108,806	20,025	454	79
1887.....	590,568	99,135	16,938	2,776	113,636	21,774	.....	.....
1888.....	559,131	101,330	44,786	8,603	130,166	27,024	.....	.....
1889.....	626,838	107,245	24,791	6,207	129,622	25,592	353	52

FLOUR AND COTTON.

Year.	Flour.				Cotton.			
	Imports.		Exports.		Production.		Imports.	
	Pounds.	Value.	Pounds.	Value.	Acres.	Pounds.	Pounds.	Value.
1882.....	9,216,383	\$433,746	174,604	\$7,496	.....	.....	.....	.....
1883.....	8,671,419	357,442	415,269	16,358	1,302	94,300	.....	.....
1884.....	9,492,765	389,676	20,635	830	1,090	62,123	12,870	\$752
1885.....	9,703,282	362,956	8,929	336	633	82,117	719	48
1886.....	7,202,186	269,894	314,663	12,161	568	77,741	785	51
1887.....	8,060,249	273,946	159,723	5,726	489	63,900	.....	.....
1888.....	10,051,329	363,725	301,589	9,974	467	126,952	838	71
1889.....	9,459,939	337,293	386,510	13,840	509	136,685	337	30

GUIANA.

Imports.

CORN, OATS, AND POTATOES.

Year.	Corn.		Oats.		Potatoes.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1882.....	3,999	\$4,279	14,068	\$7,094	9,418	\$4,767
1883.....	972	1,233	.....	.....	13,059	5,840
1884.....	357	5,253	6,310	5,375	10,456	10,984
1885.....	4,551	5,559	12,620	10,258	12,605	13,042
1886.....	4,911	6,018	6,021	5,587	8,755	10,663
1887.....	3,244	3,977	7,581	6,704	8,457	10,083
1888.....	5,174	5,236	11,345	9,284	12,507	19,469
1889.....	4,227	4,466	10,600	6,146	652	2,245

TOBACCO, BUTTER, AND CHEESE.

Year.	Tobacco.		Butter.		Cheese.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1882.....	34,632	\$6,105	86,921	\$22,108	151,024	\$23,158
1883.....	67,690	14,815	17,930	4,553	142,197	21,883
1884.....	44,456	9,730	95,210	25,160	123,841	21,683
1885.....	88,953	19,468	108,363	27,988	115,018	18,173
1886.....	55,937	12,050	76,676	17,088	76,180	14,128
1887.....	21,524	4,692	93,283	20,186	91,956	16,103
1888.....	76,030	12,971	95,547	20,893	102,728	18,327
1889.....	61,727	9,579	93,314	17,708	81,753	14,046

Imports—Continued.

WOOL, COTTON, AND FLOUR.

Year.	Wool.		Cotton.	Flour.	
	Pounds.	Value.	Value.	Pounds.	Value.
1882.....			\$91	731,601	\$34,996
1883.....			1,037	694,449	28,893
1884.....		\$1,233	1,380	2,845,742	136,514
1885.....	3,329	1,166	603	3,114,262	92,471
1886.....	1,362	477	.....	1,941,064	95,448
1887.....	2,844	1,025	389	3,060,917	133,629
1888.....	13,838	3,635	481	5,348,122	170,465
1889.....	17,727	5,374	3,299	3,046,867	101,211

MARTINIQUE.

Imports and exports.

WHEAT AND CORN.

Year.	Wheat.		Corn.	
	Imports.		Imports.	
	Bushels.	Value.	Bushels.	Value.
1882.....	25,959	\$37,720	34,193	\$41,908
1883.....	42,398	81,922	33,616	24,720
1884.....	20,490	26,451	33,182	29,339
1885.....	.....	.....	25,383	24,143
1886.....	.....	.....	36,437	31,860
1887.....	14,054	13,592	42,479	35,745
1888.....	21,419	21,776	35,927	32,052

OATS AND POTATOES.

Year.	Oats.		Potatoes.			
	Imports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1882.....	30,217	\$15,237	19,568	\$10,976	3,529	\$2,396
1883.....	.....	.....	20,901	12,110	.....	.....
1884.....	25,045	16,921	10,633	11,161	185	243
1885.....	19,000	9,835	8,825	5,436	163	112
1886.....	27,171	20,180	15,406	15,393	.....	.....
1887.....	27,481	17,191	17,900	14,670	.....	.....
1888.....	30,124	20,922	13,136	12,529	66	92

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1882.....	693,990	\$176,939	9,524	\$1,705	215,533	\$33,019	.....	.....
1883.....	750,126	178,473	7,937	1,521	192,358	29,479	.....	.....
1884.....	639,958	101,344	18,267	2,816	167,585	29,159	154	\$27
1885.....	559,430	86,060	11,982	1,702	104,727	17,572	22	4
1886.....	704,423	101,088	80,393	11,244	125,942	20,931	.....	.....
1887.....	666,920	92,533	50,064	6,501	150,881	24,140	.....	.....
1888.....	691,305	92,783	2,116	329	141,780	22,902	503	81

Imports and exports—Continued.

TOBACCO AND FLOUR.

Year.	Tobacco.				Flour.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1882.....	298,472	\$33,127	33,106	\$2,520	8,728,563	\$344,140	33,521	\$1,804
1883.....	468,171	49,183	65,289	7,246	8,421,047	374,759	62,798	2,672
1884.....	660,467	69,871	71,980	7,594	10,695,524	433,930	226,772	8,540
1885.....	614,625	63,099	42,921	4,486	11,128,096	425,521	80,164	2,991
1886.....	649,819	68,713	.....	.....	10,763,928	398,364	96,040	3,316
1887.....	545,310	56,968	40,214	4,007	11,962,076	413,872	.....	.....
1888.....	457,029	50,378	.....	.....	12,750,780	454,974	176,596	5,373

ST. PIERRE AND MIQUELON.

Imports and exports.

OATS AND POTATOES.

Year.	Oats.				Potatoes.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1885.....	1,399	\$951	.....	.....	22,734	\$7,732	803	\$273
1886.....	1,632	1,110	.....	.....	33,661	11,448	325	1,025
1887.....	1,389	946	.....	.....	34,910	14,247	2,554	1,042
1888.....	5,640	3,843	.....	.....	24,576	10,029	2,823	1,728
1889.....	6,384	4,343	.....	.....	26,108	10,655	2,855	1,747

CORN AND FLOUR.

Years.	Corn.				Flour.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Pounds.	Value.	Pounds.	Value.
1882.....	.....	.....	.....	.....	.....	.....	1,787,432	\$93,888
1883.....	.....	.....	.....	.....	4,955,392	\$173,507	2,182,554	114,642
1884.....	.....	.....	.....	.....	7,140,378	250,039	2,712,187	118,718
1885.....	3,320	\$3,255	.....	.....	5,945,173	277,126	2,485,576	108,799
1886.....	3,336	3,271	.....	.....	5,019,896	175,785	2,261,437	89,089
1887.....	3,950	3,165	.....	.....	5,380,628	172,977	1,916,342	77,424
1888.....	4,665	4,598	.....	.....	4,842,889	169,587	2,348,496	102,799
1889.....	3,911	3,835	.....	.....	4,868,749	213,115	2,371,343	103,807

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1882.....	166,928	\$43,841	47,981	\$12,601	.....	.....	.....	.....
1883.....	149,900	42,070	60,646	15,928	.....	.....	.....	.....
1884.....	228,835	70,116	102,166	26,832	.....	.....	.....	.....
1885.....	231,263	62,028	90,576	23,788	.....	.....	1,742	\$457
1886.....	244,345	64,173	107,576	28,253	.....	.....	2,024	592
1887.....	279,288	73,350	152,217	39,977	.....	.....	4,015	765
1888.....	260,912	68,524	130,572	34,292	.....	.....	5,013	1,317
1889.....	228,053	59,894	132,644	34,837	.....	.....	6,870	1,804

A U S T R A L A S I A .

The British colonies of Australasia are seven in number: New South Wales, South Australia, Western Australia, Victoria, and Queensland (political subdivisions of the island or continent of Australia), and Tasmania and New Zealand. The agricultural and material progress of the colonies in the past twenty years has been remarkable, comparable only with the unequalled advancement of the United States during the first century of its existence. With the advance in population which has been shown during the past few years, Australasia is yet the least densely peopled of any civilized country, and of the extent and value of her natural resources even the home government seems hardly aware. The total area of the seven colonies is officially stated at 3,075,238 square miles, an area which is greater than that of the United States, excluding Alaska, while the population in 1889 was only 3,786,827, or less than the population of the single State of Illinois. Western Australia alone is nearly as large as the States of this Union east of the Mississippi River, with the addition of Texas, and has a population which is less than one-third the population of Delaware. The statistics of these colonies are very complete, covering both production and trade in the lines investigated in this report, and the data are presented in a clear, succinct style, which might well be emulated by the official statisticians of other and older countries.

NEW SOUTH WALES.

The statistics of acreage, production, and trade which are presented for this colony are taken from the annual numbers of the *Statistical Register*, issued by the colonial government. In wheat, this colony is an importing country, although the annual production for ten years averages more than 4,000,000 bushels per annum. The net importation amounts to more than 700,000 bushels each year. Corn is a crop of considerable importance, the acreage devoted to its culture showing a steady increase during the past decade and now approaching 174,000 acres. Production has made equal advance; the crop of 1890 amounted to 5,523,611 bushels, against an average for the whole period of 4,560,893 bushels. The foreign trade in this product is small, but the balance is in favor of exports. The annual production of potatoes amounts to 1,600,000 bushels and the net importation equals about the same figures. The production of tobacco is assuming some prominence

in the colony, the acreage devoted to that crop having increased from 592 acres in 1880 to 4,833 acres in 1889, production increasing during the same time from 697,000 pounds in 1880 to 6,214,000 pounds in 1889. The average production for the last ten years was 2,559,000 pounds, with a net importation of 633,000 pounds. It is a noticeable fact that practically all of the exports, averaging more than 70,000 pounds a year, are of foreign tobacco. In the trade in dairy products the colony appears as an importer both of butter and cheese, although in the case of cheese there appears a tendency in the later years toward a substantial increase in exportation.

The principal item of foreign trade of the colony is wool, and in this there is a marked and steady increase in the net exportation during the decade. The importation is small, and is probably made up mainly of wool which is brought in by land from adjoining colonies. The annual exportation averages more than 200,000,000 pounds for the ten years 1881 to 1890, inclusive, and the increase of the trade is shown by the fact that, while the exports of 1881 amounted to 147,000,000 pounds, the exports of 1891 amounted to 341,000,000 pounds. The trade in cotton is insignificant, and the figures are given in bales, without any statement as to the size of the bale. In addition to the importation of wheat already noted, there is an average net importation of flour amounting to 85,000,000 pounds per annum. It is impossible to specify the cereals from which this flour is made, but from the character of the population it is safe to assume that the larger part of it is of wheat flour.

Production, imports, and exports.

WHEAT.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	233,368	3,727,156				
1881.....	253,137	3,834,526	268,317	\$285,381	156,814	\$116,796
1882.....	221,887	3,513,322	720,535	936,913	70,841	84,843
1883.....	247,361	4,169,811	254,888	295,299	74,229	82,088
1884.....	289,757	4,482,405	484,593	420,787	52,969	49,623
1885.....	275,249	4,406,028	562,615	464,979	49,148	41,560
1886.....	264,867	2,819,281	1,139,911	1,072,027	124,098	114,329
1887.....	337,730	6,053,830	286,871	242,731	140,204	118,796
1888.....	389,390	4,843,862	1,587,064	1,403,620	154,606	122,032
1889.....	304,803	1,496,223	2,922,140	3,102,632	142,062	143,367
1890.....	419,758	6,777,432	363,596	290,219	226,138	182,426
1891.....			928,449	948,525	332,226	270,353

CORN.

1880.....	135,034	4,911,950				
1881.....	127,196	4,661,333	21,279	\$18,692	697,071	\$499,123
1882.....	117,478	4,467,468	42,388	52,042	184,940	231,217
1883.....	118,180	4,185,532	118,549	117,691	312,957	237,816
1884.....	123,634	4,681,661	113,530	121,419	223,794	249,938
1885.....	115,600	3,496,342	120,275	107,175	412,119	348,758
1886.....	132,709	4,472,839	97,657	75,752	203,205	176,007
1887.....	146,957	3,945,715	280,681	241,612	347,832	308,828
1888.....	171,662	5,109,248	156,801	124,232	352,876	262,684
1889.....	166,101	5,065,180	245,151	172,430	377,601	285,824
1890.....	173,836	5,523,611	581,489	444,521	31,782	28,250
1891.....			299,952	181,009	18,182	10,556

Production, imports, and exports—Continued.

BARLEY.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	6,130	155,687	.....	.....	.....	.....
1881.....	8,056	168,545	27,592	\$27,257	894	\$789
1882.....	6,426	139,480	50,749	51,643	3,269	3,304
1883.....	6,473	137,244	64,897	57,507	14,273	10,716
1884.....	5,081	109,853	132,672	92,391	20,560	15,066
1885.....	7,035	153,561	45,562	36,226	9,020	6,317
1886.....	5,297	88,304	63,923	45,404	5,849	4,151
1887.....	6,079	137,140	70,581	49,711	37,929	25,749
1888.....	4,402	87,197	146,004	107,662	75,438	62,510
1889.....	3,318	37,919	137,174	114,178	30,769	28,737
1890.....	5,440	116,674	49,709	32,717	2,401	1,951
1891.....	.....	.....	63,568	37,852	1,645	1,193

OATS.

1880.....	23,883	533,231	.....	.....	.....	.....
1881.....	17,922	367,346	349,706	\$229,811	28,658	\$21,378
1882.....	16,347	367,805	880,901	734,384	66,293	57,138
1883.....	24,817	636,927	641,559	433,800	21,548	14,473
1884.....	17,810	388,507	1,764,912	1,176,963	195,507	138,106
1885.....	19,472	439,345	1,590,259	911,004	143,914	86,108
1886.....	14,117	287,904	1,198,922	697,024	75,660	47,945
1887.....	23,947	619,832	1,572,466	810,438	134,579	72,657
1888.....	19,393	407,205	1,259,870	700,961	159,027	91,539
1889.....	7,984	113,396	1,099,219	762,950	188,924	135,478
1890.....	22,358	560,456	1,551,019	741,178	45,854	23,919
1891.....	.....	.....	1,517,104	707,536	32,402	16,395

RYE.

1880.....	1,016	17,405	.....	.....	.....	.....
1881.....	1,095	17,344	.....	.....	.....	.....
1882.....	889	15,140	.....	.....	.....	.....
1883.....	1,031	17,928	.....	.....	.....	.....
1884.....	1,140	16,787	.....	.....	.....	.....
1885.....	1,110	17,267	.....	.....	.....	.....
1886.....	666	8,093	.....	.....	.....	.....
1887.....	1,095	18,345	.....	.....	.....	.....
1888.....	1,091	19,771	.....	.....	189	\$160
1889.....	512	6,171	.....	.....	545	613
1890.....	1,114	18,814	.....	.....	42	44

POTATOES.

1880.....	19,271	2,323,179	.....	.....	.....	.....
1881.....	19,095	1,945,515	1,154,085	\$538,527	176,068	\$92,531
1882.....	15,943	1,654,725	1,707,552	1,039,377	232,319	145,508
1883.....	14,462	1,622,544	1,601,899	827,305	215,642	114,047
1884.....	14,953	1,380,475	2,300,667	1,174,880	277,712	162,872
1885.....	12,417	1,169,840	2,234,325	1,081,692	264,878	134,651
1886.....	15,166	1,444,613	2,349,125	1,268,030	234,086	143,265
1887.....	17,322	1,709,979	2,021,227	875,162	343,175	164,385
1888.....	20,915	2,294,320	1,950,256	877,600	249,706	146,360
1889.....	15,419	1,375,323	2,200,165	1,599,507	373,014	293,455
1890.....	17,551	1,870,251	1,874,133	993,082	19,930	220,890
1891.....	.....	.....	2,115,979	779,166	211,594	84,842

Production, imports, and exports—Continued.

TOBACCO.

Year.	Production.		Imports.		Exports.	
	Acres.	Pounds.	Pounds.	Value.	Pounds.	Value.
1880.....	592	696,752				
1881.....	1,791	2,180,528	1,035,243	\$181,764	165,253	\$37,715
1882.....	1,625	2,050,832	1,222,594	223,124	100,671	23,325
1883.....	1,815	1,964,480	856,066	170,853	18,652	4,555
1884.....	1,785	2,240,672	871,416	173,948	23,117	8,581
1885.....	1,046	1,110,368	516,951	118,295	154,548	36,635
1886.....	1,603	2,570,064	507,916	157,519	26,140	6,516
1887.....	1,203	1,527,904	459,364	88,200	33,529	9,164
1888.....	2,371	2,628,080	414,538	73,927	19,339	6,171
1889.....	4,833	6,213,536	479,756	60,763	56,396	15,825
1890.....	3,239	3,105,088	690,579	88,016	118,977	24,440
1891.....			1,069,358	158,371	89,206	20,678

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....	660,128	\$149,601	762,397	\$124,942	171,544	\$27,676	145,833	\$22,293
1882.....	1,654,016	440,039	437,856	126,057	331,944	60,481	163,378	30,250
1883.....	1,813,504	492,437	778,635	167,788	161,753	39,136	359,742	58,009
1884.....	2,791,936	716,096	621,292	138,939	725,177	110,411	247,337	39,414
1885.....	3,624,992	575,196	521,473	135,060	769,148	141,922	123,585	19,398
1886.....	3,129,392	776,382	287,029	72,282	1,229,334	211,732	85,815	16,833
1887.....	1,034,544	192,134	1,041,223	154,935	318,099	52,563	247,826	29,394
1888.....	2,258,683	500,485	764,971	136,889	691,148	100,459	300,375	33,603
1889.....	1,904,737	399,618	662,489	128,125	955,594	140,408	300,750	49,230
1890.....	838,703	157,582	1,120,044	192,791	212,801	86,129	288,902	28,523
1891.....	1,410,508	327,822	572,212	119,005	260,423	44,923	109,965	12,921

WOOL AND COTTON.

Year.	Wool.				Cotton.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Bales.	Value.	Bales.	Value.
1881.....	8,097,141	\$1,730,654	147,183,687	\$36,648,599	1,032	\$121,156	1,046	\$135,050
1882.....	8,316,114	1,896,991	153,351,344	37,830,730	1,318	82,682	1,304	103,408
1883.....	16,765,446	3,239,381	199,638,895	49,328,031	1,045	63,999	1,008	65,245
1884.....	11,404,239	2,369,771	183,016,318	45,659,931	401	18,911	209	26,625
1885.....	12,798,959	2,643,196	178,373,425	37,366,189	689	13,047	95	5,373
1886.....	7,800,721	1,361,092	178,650,611	35,048,416	412	6,385	45	2,516
1887.....	8,225,080	1,524,290	224,295,209	44,772,146	257	2,015	88	3,655
1888.....	7,317,827	1,156,509	243,256,253	45,543,213	63	1,465	66	4,599
1889.....	8,695,393	1,606,295	266,229,029	52,485,543	52	1,737	92	3,913
1890.....	7,752,553	1,348,556	243,738,266	44,930,799	928	13,003	61	3,475
1891.....	12,163,554	1,876,002	340,691,382	55,054,618	101	5,825	107	7,227

FLOUR.

Year.	Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.
1881.....	74,025,280	\$1,890,397	39,590,208	\$1,045,086
1882.....	109,728,640	3,131,841	37,338,560	1,122,239
1883.....	89,707,520	2,328,542	34,610,016	941,881
1884.....	110,920,320	2,528,906	35,849,856	858,840
1885.....	119,661,920	2,551,579	20,470,240	435,571
1886.....	137,742,080	3,160,169	17,202,752	403,180
1887.....	153,263,040	3,330,350	47,500,320	1,034,886
1888.....	147,591,360	3,074,630	43,022,784	929,093
1889.....	147,320,320	3,606,996	40,458,432	978,235
1890.....	123,719,680	2,601,607	46,030,992	1,002,436
1891.....	143,339,840	3,422,595	28,531,664	674,409

NEW ZEALAND.

The data for acreage, production, and trade presented are from the official publication, *Statistics of New Zealand*, for each year. The period covered is from 1883 to 1891 inclusive.

The production of wheat seems to be hardly as prominent in New Zealand during the latter part as in the earlier portion of the period presented. The acreage devoted to that crop in 1883 was 390,818 acres and in 1891 this had decreased to 301,460 acres. The average production for the period was a little over 8,000,000 bushels. As might be expected this reduction in production is reflected by a similar reduction in the net exports. In 1883 the exportation amounted to more than 5,000,000 bushels, while in 1891 it was only 1,500,000 bushels. The production of oats shows a small increase during the period presented, the acreage in 1883 amounting to 319,000 acres, and in 1891 to 346,000. Between these dates it ran as high as 426,000 acres in 1890, when the crop amounted to 14,000,000 bushels. The average production for the nine years presented is a little over 11,000,000 bushels, and from this production there is an exportation of nearly 3,000,000 bushels per annum. The area devoted to potatoes shows a substantial increase amounting to 60 per cent in 9 years, while the production has advanced from a little less than 4,000,000 bushels, in 1883, to 6,600,000 bushels, in 1891. A substantial export trade in this product has grown up, amounting now to more than a million bushels a year.

The production of butter and cheese is returned by the census of 1881, 1886, and 1891, but it is intimated that the figures practically represent an estimate. In the case of butter the production of 1891 amounted to something over 18,000,000 pounds, from which there was a net exportation of 4,400,000 pounds, leaving for consumption 13,800,000 pounds. The production of cheese in the same year was a little less than 7,000,000 pounds, and the exportation 4,450,000 pounds. The trade in cotton is small and declining, imports in 1891 amounting to only 54,000 pounds, while the exports of the same year amounted to 44,000 pounds.

The wool trade of the colony is very large, forming one of its staple exports. During the nine years, 1883 to 1891 inclusive, the average exportation was 90,011,426 pounds, and during the period the exports increased from 68,000,000 in 1883 to 106,000,000 in 1891. The trade in flour, which is presented, is not subdivided to show the proportion made up of different cereals, but in all probability is mainly of wheat. In addition to the exportation of wheat in the grain already referred to, there is an annual exportation of 13,000,000 pounds of flour.

Production, imports, and exports.

WHEAT.

Year.	Production.		Imports.		Exports.	
	Aeres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1883.....	390,818	10,594,320	6,677	\$8,677	5,051,910	\$5,194,059
1884.....	377,706	10,136,887	5,281	5,402	2,792,093	2,125,337
1885.....	270,043	7,083,218	4,603	4,360	1,401,958	884,564
1886.....	173,891	4,376,002	9,091	10,074	1,291,073	1,037,762
1887.....	253,025	6,496,140	10,342	9,597	650,078	527,280
1888.....	357,359	9,721,105	1,448	1,144	2,389,718	1,848,219
1889.....	362,153	9,046,684	13	24	2,779,062	2,383,261
1890.....	335,861	8,714,803	110	419	4,607,827	3,271,490
1891.....	301,460	5,904,018	263	516	1,500,834	1,352,284

CORN.

1883.....			2,651	\$2,243	83	\$892
1884.....			122	131	35,018	34,752
1885.....			2,478	2,015	20,381	14,818
1886.....			574	579	12,446	9,976
1887.....			140	117	48,370	39,803
1888.....	5,732	230,307	552	462	17,183	13,261
1889.....	4,768	213,808	357	287	95,932	70,881
1890.....	6,253	278,801	135	122	296,959	211,347
1891.....	5,759	246,393	107	83	44,796	32,143

BARLEY.

1883.....	28,146	760,398	14,608	\$15,149	149,491	\$147,684
1884.....	32,907	994,856	28	92	132,499	122,334
1885.....	39,703	1,243,916	85	170	233,594	163,967
1886.....	34,603	925,084	55	88	143,490	100,075
1887.....	21,545	576,213	6,362	4,920	139,988	115,059
1888.....	27,912	784,857	14,048	11,986	77,822	69,542
1889.....	45,027	1,446,745	32	165	510,287	417,459
1890.....	42,402	1,385,149	4	15	248,551	162,663
1891.....	32,740	782,751	100	370	86,398	54,086

OATS.

1883.....	319,858	10,852,032			1,670,825	\$829,947
1884.....	262,954	9,522,311	274	\$360	2,552,631	1,300,747
1885.....	354,794	12,750,050	21	83	2,905,792	1,267,212
1886.....	329,488	8,874,891	28	39	2,055,468	977,339
1887.....	387,228	12,350,693			3,290,444	1,360,459
1888.....	336,474	10,843,461			2,693,283	1,257,426
1889.....	367,225	11,323,062	6	10	2,739,614	1,752,359
1890.....	426,071	14,104,575	9	15	3,114,323	1,126,094
1891.....	346,224	10,260,567	478	370	4,180,146	1,613,459

POTATOES.

1883.....	20,488	3,904,357	13,950	\$8,599	378,961	\$130,344
1884.....	21,102	4,226,059	4,592	3,991	717,752	260,533
1885.....	21,348	4,610,816	4,629	3,703	524,011	187,969
1886.....	24,823	4,246,779	49,056	32,966	295,792	115,506
1887.....	27,683	5,038,693	4,545	2,497	585,685	152,939
1888.....	25,338	5,154,240	784	482	619,659	205,697
1889.....	26,331	4,990,794	495	384	806,736	457,432
1890.....	30,577	5,963,216	177	122	1,078,075	393,184
1891.....	32,691	6,649,851	56	29	1,329,440	287,688

Production, imports, and exports—Continued.

RYE AND BERE AND TOBACCO.

Year.	Rye and bere—production.		Tobacco.			
			Imports.		Exports.	
	Acres.	Bushels.	Pounds.	Value.	Pounds.	Value.
1884.....			21, 878	\$7, 811		
1885.....			26, 519	7, 202		
1886.....			4, 304	1, 499	7, 609	\$1, 698
1887.....			11, 608	3, 431		
1888.....	1, 914	32, 575	30, 164	8, 409	146	73
1889.....	2, 994	42, 816	25, 107	6, 808	2, 121	564
1890.....	3, 038	55, 997	2, 199	599		
1891.....	4, 041	39, 173	39, 628	9, 991		

BUTTER.

Year.	Production, pounds.	Imports.		Exports.	
		Pounds.	Value.	Pounds.	Value.
1881.....	8, 453, 815				
1883.....		19, 236	\$3, 178	994, 644	\$204, 831
1884.....		25, 200	4, 093	1, 765, 792	324, 075
1885.....		560	112	2, 791, 376	498, 266
1886.....	12, 170, 964	18, 368	2, 793	2, 595, 600	513, 596
1887.....		8, 512	1, 197	1, 906, 016	267, 273
1888.....		7, 224	900	3, 359, 440	575, 473
1889.....		5, 936	939	4, 250, 960	714, 597
1890.....		784	136	3, 899, 392	597, 124
1891.....	18, 279, 771			4, 416, 160	731, 231

CHEESE.

1881.....	3, 178, 694				
1883.....		23, 856	\$4, 404	282, 940	\$33, 735
1884.....		18, 480	3, 050	1, 159, 536	122, 125
1885.....		11, 536	1, 951	1, 709, 680	174, 408
1886.....	4, 594, 795	8, 904	1, 372	1, 840, 048	222, 190
1887.....		31, 472	3, 197	2, 678, 256	265, 526
1888.....		2, 800	404	4, 108, 496	384, 069
1889.....		784	175	2, 974, 496	326, 566
1890.....		1, 232	165	4, 530, 512	418, 584
1891.....	6, 975, 698	1, 008	258	4, 454, 352	421, 814

WOOL AND COTTON.

Year.	Wool.				Cotton.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1883.....	59, 256	\$9, 928	68, 182, 450	\$14, 674, 741	314, 815	\$56, 899	288, 697	\$58, 490
1884.....	310	88	81, 139, 028	15, 901, 420	256, 603	44, 957	233, 139	48, 115
1885.....	37, 396	5, 572	86, 542, 167	15, 603, 751	214, 466	31, 335	207, 067	34, 387
1886.....	36, 943	3, 898	90, 886, 820	14, 958, 302	172, 023	22, 814	147, 605	21, 271
1887.....	48, 656	5, 869	88, 858, 237	16, 166, 844	111, 523	13, 835	108, 217	15, 222
1888.....	13, 783	2, 307	83, 262, 589	15, 164, 245	81, 102	12, 176	75, 863	12, 200
1889.....	3, 435	409	102, 227, 354	19, 351, 029	31, 937	5, 747	28, 572	5, 358
1890.....	34, 310	5, 888	102, 817, 077	20, 198, 890	19, 252	3, 407	11, 120	2, 414
1891.....	8, 861	1, 163	106, 187, 114	20, 097, 117	54, 567	9, 986	44, 484	6, 356

Production, imports, and exports—Continued.

FLOUR.

Year.	Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.
1883.....	1,806,150	\$54,242	13,715,632	\$316,240
1884.....	3,469,050	88,035	8,216,320	162,259
1885.....	3,036,900	75,528	11,874,240	204,155
1886.....	1,202,800	32,980	19,513,200	422,572
1887.....	2,004,100	51,385	3,540,544	77,693
1888.....	1,557,200	32,664	10,996,832	237,860
1889.....	43,900	1,309	32,366,000	770,347
1890.....	10,900	248	22,258,880	425,176
1891.....	106,300	2,657	8,037,680	192,860

QUEENSLAND.

The statistics of acreage, product, and trade presented below are from the official publication, *Statistics of the Colony of Queensland*. The production of wheat fluctuates quite widely, ranging from 230,000 bushels in 1880, to 40,000 bushels in 1881, with an average for the last ten years of 106,000 bushels. This production is not sufficient for the demands of consumption, and there is a considerable and growing trade in wheat imports. The average for the ten years presented is 64,000 bushels, but in 1890 it amounted to 336,775 bushels. Corn is quite a prominent crop in the agriculture of the colony, and the acreage has more than doubled in the past ten years. The average production for that period is 1,741,000 bushels, and the net imports about 150,000 bushels. It should be noted, however, that in occasional years of abundance there is a net exportation of corn, amounting in 1890 to more than 160,000 bushels. In oats, as in other cereals, Queensland is an importing country, the home production being inadequate for the consumption. The production of potatoes during the past ten years averages about 440,000 bushels, while the net imports during the same period are a little greater. But little change, however, appears in the average production during the period, while in imports there has been a marked increase. The production of tobacco amounted in 1890 to 268,000 pounds, and the imports in the same year about 165,000 pounds. No statement of exportation appears. In dairy products, as in all others, except wool, covered in this investigation, the balance of trade is in favor of imports. The wool trade of the colony shows a steady increase, advancing from 24,000,000 pounds in 1880, to 56,000,000 pounds in 1890, the average for the period being 42,494,339 pounds. In the earlier part of the decade more attention was paid to the production of cotton in Queensland, and at one time it was believed that this crop would be made a success in that colony. The returns which are presented, however, show that the result has not been encouraging, and now practically no cotton is grown in the colony. There are no imports of the staple, and the export trade which appears covers only

the years in which cotton was grown within the colony, although it appears that the exports for the whole period were slightly larger than the production. In addition to a net importation of all the grains there is an importation of flour amounting to more than 78,000,000 pounds per annum. It is not possible to specify what kind of flour is included in this statement, but undoubtedly the larger portion of it is made from wheat.

Production, imports, and exports.

WHEAT.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	10,943½	230,280	32,179	\$35,160	.....	.....
1881.....	4,708	40,861	331	462	.....	.....
1882.....	10,494	150,346	48,653	66,515	.....	.....
1883.....	9,879	44,192	12,523	15,913	.....	.....
1884.....	12,105	201,896	26,696	24,761	41	\$49
1885.....	10,093	53,224	10,622	8,482	.....	.....
1886.....	6,787	21,890	19,975	13,096	.....	.....
1887.....	8,248	188,054	54,775	48,144	.....	.....
1888.....	9,305	8,523	17,246	12,862	.....	.....
1889.....	8,45½	138,569	113,042	108,343	77	97
1890.....	10,390	214,546	336,775	295,158	34	15

CORN.

1880.....	44,109	1,454,038	60,462	\$35,852	25,604	\$12,794
1881.....	46,480	1,355,061	90,208	76,818	10,372	6,093
1882.....	53,323	1,467,490	75,668	91,918	222	268
1883.....	56,463	1,670,175	45,953	36,085	62,933	45,156
1884.....	61,064	1,354,323	207,817	245,208	3,157	3,095
1885.....	71,741	1,623,916	373,698	314,327	13,048	12,351
1886.....	75,166	1,763,562	123,133	99,715	.....	.....
1887.....	73,139	1,683,327	342,771	309,558	29,373	23,641
1888.....	85,966	2,250,448	339,627	259,161	10,520	7,305
1889.....	97,698	1,797,992	223,070	172,342	120	141
1890.....	99,400	2,448,625	32,182	25,379	200,954	133,493

BARLEY.

1880.....	1,499	32,424	159	\$146	14,489	\$13,432
1881.....	236	3,308	284	287	.....	.....
1882.....	504	9,265	5,021	4,808	.....	.....
1883.....	241	3,291	613	1,090	667	526
1884.....	686	17,499	24,770	19,067	.....	.....
1885.....	406	10,136	6,625	4,954	.....	.....
1886.....	768	19,066	7,946	3,382	.....	.....
1887.....	1,165	32,486	1,752	1,353	9	10
1888.....	324	7,666	1,111	793	.....	.....
1889.....	1,254	27,469	10,355	8,400	.....	.....
1890.....	584	13,072	5,735	2,993	.....	.....

OATS.

1880.....	116	2,147	23,645	\$16,123	.....	.....
1881.....	88	1,156	38,063	21,860	.....	.....
1882.....	225	3,848	87,890	66,131	.....	.....
1883.....	125	1,147	42,842	25,919	99	892
1884.....	143	2,238	351,391	231,091	444	482
1885.....	208	1,038	294,683	164,712	17	19
1886.....	138	1,483	249,826	147,504	41	63
1887.....	550	13,764	340,315	180,455	144	165
1888.....	642	3,740	231,684	131,079	660	248
1889.....	750	15,020	187,560	128,568	.....	.....
1890.....	411	9,250	175,929	76,608	25	29

Production, imports, and exports—Continued.

POTATOES.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	6,111	603,941	297,259	\$95,379	3,285	\$1,421
1881.....	5,086	447,403	192,757	105,919	2,688	1,367
1882.....	5,133	554,811	313,877	184,679	4,374	3,280
1883.....	5,468	531,477	227,559	120,543	5,393	3,007
1884.....	3,775	255,136	625,285	330,664	4,872	3,397
1885.....	4,894	310,837	634,399	280,675	3,323	2,020
1886.....	4,952	445,723	572,667	302,633	5,404	3,202
1887.....	6,604	584,677	486,254	216,817	2,177	1,197
1888.....	5,338	377,776	593,681	288,374	2,694	1,513
1889.....	4,484	397,600	648,553	458,020	4,116	2,925
1890.....	6,270	489,515	566,948	288,841	6,546	2,925

TOBACCO AND RYE.

Year.	Tobacco.				Rye—imports.	
	Production.		Imports.		Bushels.	Value.
	Acres.	Pounds.	Pounds.	Value.		
1880.....	46	33,488	.....	.....	38	\$58
1881.....	68	58,352	.....	.....	39	54
1882.....	57	67,480	.....	.....	174	117
1883.....	55	40,320	.....	.....	38	58
1884.....	73	91,392	.....	.....	502	457
1885.....	117	148,960	.....	.....	.....	.....
1886.....	90	71,232	.....	.....	205	302
1887.....	128	47,488	.....	.....	19	24
1888.....	123	158,816	8,433	\$3,051	29	39
1889.....	266	283,472	254,544	38,460	635	715
1890.....	540	267,904	164,886	40,650	53	54

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	410,699	\$72,058	11,664	\$1,504	425,480	\$58,919	732	\$83
1881.....	534,675	106,679	2,916	749	534,893	66,939	3,777	516
1882.....	508,079	143,148	13,785	3,664	618,213	109,336	762	234
1883.....	729,975	213,255	1,088	287	813,388	128,120	2,464	453
1884.....	1,271,964	285,756	12,724	3,129	1,069,620	146,852	1,587	273
1885.....	1,179,910	311,792	6,308	1,543	1,128,019	153,134	6,480	988
1886.....	726,830	180,946	10,559	2,886	1,113,519	155,796	2,767	438
1887.....	721,408	144,316	8,968	2,005	1,307,562	152,550	7,322	1,290
1888.....	1,297,411	315,237	8,973	2,462	1,258,522	138,943	4,689	774
1889.....	781,442	170,527	21,588	5,387	1,274,310	155,013	6,954	1,012
1890.....	266,317	65,386	6,584	1,679	1,106,762	112,864	2,082	404

Production, imports, and exports—Continued.

COTTON.

Year.	Production.		Exports.	
	Acres.	Pounds.	Pounds.	Value.
1880.....	619	125, 736	108, 260	\$17, 427
1881.....	973	183, 488	266, 289	43, 015
1882.....	1, 082	243, 232	248, 029	38, 601
1883.....	316	70, 020	80, 689	16, 692
1884.....	49	12, 050	28, 856	5, 188
1885.....	50	14, 968	19, 241	2, 959
1886.....	15	2, 100	1, 548	219
1887.....				
1888.....				
1889.....	1	7	25, 172	3, 256
1890.....	16	5, 315		

WOOL AND FLOUR.

Year.	Wool—exports.		Flour.			
			Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	24, 360, 822	\$6, 752, 629	55, 379, 520	\$1, 317, 254	38, 080	\$1, 148
1881.....	25, 338, 013	6, 481, 540	49, 994, 560	1, 204, 288	94, 080	2, 706
1882.....	24, 763, 149	6, 467, 671	61, 372, 976	1, 810, 260	165, 760	4, 648
1883.....	43, 231, 606	11, 085, 293	61, 047, 392	1, 656, 566	466, 144	13, 032
1884.....	35, 525, 977	9, 195, 271	86, 085, 776	1, 823, 867	312, 480	7, 616
1885.....	42, 472, 071	8, 660, 822	75, 756, 016	1, 497, 729	153, 440	4, 093
1886.....	28, 700, 546	6, 880, 783	81, 650, 912	1, 924, 399	167, 888	4, 497
1887.....	54, 583, 683	13, 328, 468	99, 011, 808	2, 159, 305	237, 440	6, 103
1888.....	55, 465, 219	12, 123, 770	89, 587, 792	1, 882, 187	724, 528	16, 303
1889.....	59, 228, 753	13, 042, 872	92, 671, 040	2, 348, 996	221, 536	7, 699
1890.....	55, 584, 370	12, 286, 657	92, 114, 064	1, 996, 195	225, 568	6, 701

SOUTH AUSTRALIA.

The figures relative to acreage, production, and foreign trade, presented in the tables below, are from the annual official publication, the *Statistical Register of South Australia*, for each year. It will be noted that in the statements of production there is a period from 1886 to 1889 for which no estimates are given. During this period, for some reason, the official statistical service of the colony made no statements covering agricultural production.

South Australia occupies the first position among the colonies as regards agriculture, and is the principal wheat-producing colony. The large production of wheat, however, is due rather to the extent to which it is cultivated than natural fertility of soil, as the yield per acre is considerably smaller than in other colonies. As illustrative of this it may be stated that the average yield per acre of wheat is less than one-half that of New South Wales and less than one-third that of New Zealand. Leaving out of consideration the four years for which no estimates are available, it appears that the average production of wheat during the period 1881 to 1891, was 11,390,544 bushels. From this production there is a net exportation of 4,400,000 bushels per annum. The export trade fluctuates in accordance with the season for the home crop,

and the demand and prices abroad, ranging from more than 9,000,000 bushels in 1885 to 421,000 in 1886. The production of barley, which averages 184,000 bushels per annum, is not sufficient to meet the demands for consumption, and there is an average net importation of about 46,000 bushels. It is to be noted, however, that during the closing years of the decade presented, the import trade has materially declined. In the case of oats also the balance of trade is in favor of imports, but the figures presented show that there is a decided tendency toward an increase in the area cultivated. In the trade in dairy products a marked change appears during the period for which data are presented. In the earlier years of the decade, the balance of trade in the matter of butter was heavily in favor of importation, but in the closing years the balance is quite as heavily in favor of exports, an indication that the colony is beginning to take advantage of its natural resources as a stock-growing country. The same tendency is apparent in the case of cheese, but the change has not yet become so marked, although the imports and exports in 1890 very nearly balanced. Wool is the staple product of the colony, the average production being estimated at 43,602,400 pounds, taking the series of years, 1881 to 1890 inclusive. The wool trade is, of course, largely made up of exportation of raw wool, but there appears an annual importation of something more than 15,000,000 pounds, which, without doubt, can be properly credited to the overland trade from some of the adjacent colonies. In the exports the amount of foreign wool, which is recorded as being shipped from South Australian ports, is almost identical with the records of imports as given. The average exportation for ten years is something more than 57,000,000 pounds. In addition to shipments of wheat, already referred to, the colony has a very large trade in flour made up almost entirely of exports, the net exportation averaging during ten years almost 149,000,000 pounds per annum. This flour is not subdivided so as to indicate the cereal from which it is made, but as wheat is the principal crop of the colony, it is fair to assume that the larger portion of it is wheat flour.

Production, imports, and exports.

WHEAT.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....			12,704	\$14,999	7,355,896	\$7,890,382
1881.....	1,733,542	8,877,787	13,448	14,585	2,525,896	2,648,997
1882.....	1,768,781	8,341,935	130,838	175,866	2,655,145	3,092,788
1883.....	1,746,531	7,587,982	63,636	70,944	1,090,878	1,292,484
1884.....	1,846,151	15,110,974	3,454	2,706	8,721,590	8,243,876
1885.....	1,942,453	15,082,633	45,647	30,328	9,359,539	7,744,879
1886.....			79,142	66,807	421,509	420,913
1887.....			4,396	4,137	2,017,287	1,827,497
1888.....			6,438	5,523	8,630,760	7,285,316
1889.....			12,668	11,796	1,064,238	1,169,396
1890.....	1,842,961	15,036,836	443	321	7,775,805	6,727,537
1891.....	1,673,573	9,695,658				

Production, imports, and exports—Continued.

CORN AND TOBACCO.

Year.	Corn.				Tobacco.			
	Imports.		Exports.		Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	14,072	\$10,453	137	\$131	509,985	\$106,956	2,074	\$725
1881.....	12,903	9,572	2,222	1,898	403,639	88,755	4,509	1,314
1882.....	1,195	1,523	.....	.....	545,927	126,879	28,460	4,331
1883.....	8,018	7,013	.....	.....	365,218	60,296	.....	151
1884.....	2,803	2,813	10	19	427,906	77,134	1,127	496
1885.....	2,004	1,776	57	19	368,182	80,769	5,826	1,455
1886.....	28,190	12,595	1,861	798	768,364	138,194	4,707	1,363
1887.....	12,801	5,387	7,590	3,007	374,406	67,197	10,205	3,718
1888.....	6,473	5,514	4,257	3,533	329,288	59,785	16,339	4,219
1889.....	2,655	2,779	507	584	317,441	44,139	10,566	3,085
1890.....	1,523	1,621	221	238	365,730	51,327	3,804	925

BARLEY.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....	.....	.....	80,249	\$33,714	1,365	\$954
1881.....	13,074	156,673	58,936	42,723	17,819	12,059
1882.....	11,953	141,488	54,821	62,554	4,216	3,704
1883.....	12,186	138,702	76,630	82,658	1,775	1,815
1884.....	13,475	194,757	64,157	75,494	2,719	2,131
1885.....	15,697	217,864	72,306	67,532	4,746	3,275
1886.....	.....	.....	56,559	54,884	1,474	1,251
1887.....	.....	.....	25,654	24,284	8,136	6,468
1888.....	.....	.....	60,984	70,467	17,317	10,799
1889.....	.....	.....	28,706	33,623	7,875	6,463
1890.....	19,679	254,621	29,539	19,476	1,782	1,285
1891.....	14,472	181,117	.....	.....	.....	.....

OATS.

1880.....	.....	.....	321,947	\$157,353	29,852	\$17,437
1881.....	4,355	51,648	372,801	204,164	46,021	28,892
1882.....	3,023	33,235	289,174	218,039	45,116	35,428
1883.....	3,457	39,685	429,548	255,389	74,327	48,504
1884.....	5,491	83,003	312,165	185,165	46,363	31,097
1885.....	7,264	91,433	386,471	202,276	39,637	25,491
1886.....	.....	.....	239,307	130,286	28,816	18,629
1887.....	.....	.....	201,801	97,544	71,370	42,674
1888.....	.....	.....	140,481	65,347	95,407	46,850
1889.....	.....	.....	139,259	87,232	44,882	30,114
1890.....	10,297	135,592	193,078	82,093	52,816	25,427
1891.....	12,475	119,893	.....	.....	.....	.....

POTATOES.

1880.....	.....	.....	135,918	\$71,465	29,485	\$16,031
1881.....	5,587	603,680	325,504	185,555	17,299	10,346
1882.....	6,136	677,749	283,612	172,381	23,096	15,247
1883.....	5,288	602,299	243,290	124,076	37,853	23,914
1884.....	6,063	954,128	6,916	3,728	82,622	33,413
1885.....	5,666	865,835	145,296	73,893	22,257	13,057
1886.....	.....	.....	163,667	82,623	27,665	16,940
1887.....	.....	.....	150,694	60,457	45,078	23,977
1888.....	.....	.....	71,032	33,803	61,086	34,129
1889.....	.....	.....	131,660	106,562	73,567	56,617
1890.....	6,383	890,512	176,516	92,318	75,548	45,691
1891.....	6,626	894,619	.....	.....	.....	.....

Production, imports, and exports—Continued.

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	404,871	\$63,644	276,673	\$52,816	922,351	\$146,160	44,179	\$9,329
1881.....	376,915	58,515	224,387	37,662	765,372	102,625	43,196	7,504
1882.....	740,555	154,993	185,026	42,270	915,496	150,793	28,777	5,796
1883.....	813,174	156,244	225,317	44,815	872,577	142,803	48,917	9,801
1884.....	244,039	40,012	273,879	52,903	887,321	125,205	55,769	9,120
1885.....	208,654	36,577	213,706	48,456	827,461	127,454	69,035	12,570
1886.....	527,297	114,080	82,732	19,568	720,744	118,407	75,021	13,782
1887.....	247,629	44,441	197,206	36,206	602,697	76,205	87,759	13,057
1888.....	114,486	20,610	715,254	152,214	399,094	48,169	153,043	22,410
1889.....	53,517	11,315	574,125	103,666	301,210	41,321	138,082	23,428
1890.....	139,914	26,046	538,072	100,051	197,685	20,464	155,260	21,427

WOOL.

Year.	Production.		Imports.		Exports.	
	Acres.	Pounds.	Pounds.	Value.	Pounds.	Value.
1880.....		113,390,566	10,009,719	\$2,474,114	51,544,118	\$10,050,179
1881.....		43,631,017	8,160,235	1,648,084	50,336,040	9,304,393
1882.....		45,295,229	17,775,666	4,204,043	57,926,306	11,682,340
1883.....		41,119,043	13,209,299	3,217,618	55,463,920	11,712,537
1884.....		46,741,075	16,816,068	3,860,137	64,112,240	12,733,810
1885.....		45,367,066	6,924,785	1,264,818	52,254,432	8,135,693
1886.....		44,792,613	17,602,167	3,576,230	58,493,555	9,515,015
1887.....		42,062,579	19,986,481	3,504,994	62,075,113	9,912,093
1888.....		42,907,457	9,061,003	1,379,818	50,596,091	7,837,284
1889.....		44,826,472	24,098,655	4,128,398	63,331,639	10,680,513
1890.....		39,281,447	17,669,174	2,824,950	53,438,971	9,106,570

FLOUR AND WHEAT MEAL.

Year.	Flour.				Wheat meal.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	13,664	\$238	175,899,808	\$4,076,083			240,576	\$5,027
1881.....	65,408	1,129	162,121,120	3,781,665			769,664	14,556
1882.....	387,520	10,555	158,378,976	4,370,492			492,016	11,621
1883.....	101,136	1,650	142,885,792	3,068,100	2,240	\$73	433,552	10,006
1884.....	13,216	282	190,548,848	3,867,953			283,808	5,504
1885.....	9,296	146	154,517,664	2,866,845			41,664	686
1886.....	224	5	116,013,296	2,667,211	6,496	209	13,664	219
1887.....	224	10	161,040,320	3,396,204	9,184	307	47,600	895
1888.....	22,000	511	148,184,800	3,230,339				
1889.....	900	24	120,412,600	3,366,533				
1890.....	100	10	133,265,400	2,987,170				

TASMANIA.

The statistics of production and trade for this colony are from the official publication, *Statistics of Tasmania*, for each year.

The importance of wheat culture in Tasmania has declined during recent years, the acreage falling from 51,757 in 1882 to 32,452 in 1891. From being a source of wheat supply, it has now become an importing country. Up to and including 1883 there was a balance in favor of exportation, but since that date there has been practically no export trade, while there has been a very marked enlargement in importation. The net requirements from outside sources during the past three years have averaged about 180,000 bushels per annum. The history of the trade in barley is recorded almost the same as that of the wheat trade. In the early part of the past decade there were no importations whatever, while during the closing years they have been sufficient to more than balance the exports. In oats the colony is still a source of supply, although during recent years the increase in importation has been marked, and accompanied by some reduction in exports. The area devoted to this crop appears to be increasing, although in 1891 there was a sudden drop, due probably to some unfavorable climatic condition. The acreage of potatoes is steadily increasing, and for the last year presented amounted to more than 20,000 acres for the crop, aggregating 2,700,000 bushels. There is practically no import trade in this product, but there is a large and increasing export trade, the average shipments for ten years amounting to 872,000 bushels per annum. In 1880 the shipments were only 238,000 bushels, and by 1890 they had increased 1,246,000 bushels. The data as to trade in dairy products are not entirely satisfactory in their arrangement, as the exports of butter and cheese are lumped together and in imports butter, cheese, and lard are classed together until 1884, while after that date butter and lard are still included. There is a large annual balance, however, in both cases in favor of imports.

The production of wool is perhaps the principal feature of the agriculture of the colony. The statistics of production, which are presented, are not what they purport to be—an independent estimate of the wool clip each year. It is stated that the figures represent the amount of wool which is returned by the collectors of customs as being shipped as of the produce of each year. Thus, the wool clip of 1889, given at 8,355,109 pounds, represents wool which was manifested as produced in that year and shipped during the years 1889 and 1890.

No imports of wool appear, and the annual exportation amounts to a little more than 8,000,000 pounds. In explanation of the small shipments of 1885 it should be stated that a considerable portion of the wool produced in that year was held over by growers and shipped during the two following years. In the flour statement the statement of imports covers wheat flour only, but the character of the flour included in the statement of exports is not specified.

Production, imports and, exports.

WHEAT.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1880.....			3,812	\$2,677	65,914	\$71,392
1881.....	50,022	773,681	37	49	1,960	1,825
1882.....	51,757	1,008,172	588	842	132,241	164,746
1883.....	46,721	976,735	3,061	3,922	18,567	20,191
1884.....	41,301	755,813	48,055	47,341	2,785	3,144
1885.....	34,091	675,272	254,629	222,044	-----	-----
1886.....	30,266	540,875	273,024	244,045	11	15
1887.....	35,322	652,512	297,654	252,547	-----	-----
1888.....	40,498	696,347	216,395	172,459	4	5
1889.....	40,657	845,328	158,268	161,835	1,165	1,256
1890.....	49,055	780,488	186,588	160,969	8,766	5,572
1891.....	32,452	663,247	-----	-----	-----	-----

RYE AND CORN.

Year.	Rye.				Corn—imports.	
	Imports.		Exports.		Bushels.	Value.
	Bushels.	Value.	Bushels.	Value.		
1885.....	100	\$49	-----	-----	688	\$818
1886.....	1	-----	99	\$117	679	745
1887.....	51	73	62	63	484	526
1888.....	697	603	-----	-----	2,150	2,458
1889.....	13	15	-----	-----	1,306	1,226
1890.....	-----	-----	-----	-----	560	623

BARLEY.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1881.....	8,297	174,488	-----	-----	4,023	\$3,956
1882.....	4,597	105,705	-----	-----	1,341	1,333
1883.....	3,229	92,568	-----	-----	36,413	35,720
1884.....	3,205	84,545	-----	-----	16,092	15,923
1885.....	5,646	172,301	-----	-----	928	818
1886.....	6,833	182,028	1,462	\$1,163	206	204
1887.....	2,749	63,526	-----	-----	62,735	46,003
1888.....	3,766	53,887	83	63	28,156	24,814
1889.....	4,670	113,446	50,496	33,589	4,157	6,268
1890.....	4,446	108,902	341	273	1,679	2,020
1891.....	4,376	102,989	43,931	34,854	19,421	7,631

OATS.

1881.....	19,853	453,297	-----	-----	187,324	\$90,877
1882.....	27,535	807,813	-----	-----	189,800	99,325
1883.....	28,849	813,573	-----	-----	334,109	247,909
1884.....	23,160	654,349	-----	-----	170,304	97,077
1885.....	28,956	855,760	-----	-----	128,218	82,619
1886.....	29,247	809,047	64,926	\$34,625	28,568	16,337
1887.....	21,607	578,293	6,244	496	225,647	107,803
1888.....	21,169	397,336	24,428	9,217	40,943	21,914
1889.....	33,834	976,183	135,128	58,486	3,202	2,789
1890.....	40,169	1,185,149	2,973	1,557	277,573	178,464
1891.....	20,740	535,766	2,140	842	153,255	61,946

Production, imports, and exports—Continued.

POTATOES.

Year.	Production.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1881.....	10,421	1,215,125	.....	.....	238,485	\$73,611
1882.....	9,670	1,253,093	.....	.....	477,755	179,550
1883.....	9,681	1,400,971	.....	.....	689,211	299,465
1884.....	9,601	1,288,336	.....	.....	549,095	170,916
1885.....	9,037	1,474,779	.....	.....	410,480	150,234
1886.....	11,073	1,998,117	.....	.....	807,669	281,629
1887.....	16,084	2,828,859	.....	.....	1,177,717	464,517
1888.....	16,394	1,587,637	.....	.....	1,336,113	416,022
1889.....	13,653	2,490,917	1,447	\$1,324	485,445	171,573
1890.....	17,015	2,698,267	323	311	1,545,236	816,302
1891.....	20,133	2,731,232	431	389	1,246,411	491,745

BUTTER AND CHEESE.

Year.	Butter—imports.		Cheese—imports.		Butter and cheese—exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	54,826	.....	.....	.....	.....	.....
1881.....	54,685	.....	.....	.....	67,200	\$11,451
1882.....	39,876	\$13,509	.....	.....	155,456	36,465
1883.....	54,722	11,553	.....	.....	29,344	7,236
1884.....	80,914	15,918	.....	.....	57,792	12,512
1885.....	50,540	14,887	1,093	\$190	69,305	16,896
1886.....	3,493	847	2,334	443	132,299	30,007
1887.....	20,416	4,122	3,686	725	23,568	4,180
1888.....	312,868	65,046	28,791	3,290	213	39
1889.....	312,376	56,378	82,255	12,478	.....	.....
1890.....	73,692	14,191	1,798	516	46,634	5,640

WOOL AND FLOUR.

Year.	Wool.				Flour.			
	Production.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1880.....	.....	.....	9,309,674	\$2,638,830	58,300	\$1,416	.....	.....
1881.....	.....	.....	8,530,361	2,425,464	43,225	1,679	.....	.....
1882.....	.....	.....	7,992,733	2,106,065	38,025	1,217	.....	.....
1883.....	.....	.....	8,518,086	2,191,711	116,050	1,596	.....	.....
1884.....	7,494,850	\$1,842,053	8,474,040	2,207,284	537,181	12,234	.....	.....
1885.....	8,340,179	1,464,880	5,956,143	1,267,626	1,357,521	30,221	2,240	\$49
1886.....	7,375,353	1,478,224	8,433,481	1,513,160	431,956	10,069	17,920	453
1887.....	7,710,091	1,609,444	10,047,242	2,021,666	2,228,877	53,780	114,240	2,594
1888.....	7,203,192	1,322,617	7,196,954	1,493,675	2,439,588	49,784	11,200	292
1889.....	8,355,169	1,880,226	6,437,635	1,378,373	595,960	15,855	2,240	68
1890.....	.....	.....	9,267,466	2,039,905	2,363,282	52,441	.....	.....

VICTORIA.

The data for production and trade in agricultural products presented in the tables for this colony are drawn from the official publication, *Victorian Year Book*, 1891.

Next to South Australia, Victoria is the principal wheat-growing colony, and the acreage devoted to that crop shows some enlargement during the period presented. The average acreage is nearly 1,100,000 acres, and the average production 11,400,000 bushels, or a yield per acre of between 10 and 11 bushels. The import trade in wheat during the earlier years of the decade was insignificant and at the close of the period was small, but taken in connection with the apparent decline in exports, they may be indicative of an approaching time when the produce of the colony will be required for its own sustenance. The average exportation for ten years was 2,240,146 bushels, but the average for the last two years, 1889 and 1890, is only a little more than 500,000 bushels. This falling off can not be attributed to a marked scarcity of wheat, for while the crop harvested in 1889 was somewhat under the average, the production of the last two years was more than normal. Corn forms quite an important crop in this colony, and there is a marked tendency towards an increase in the acreage devoted to it. This tendency to increase is easily understood, when it is noted that there is a net importation of corn each year amounting to 130,000 bushels, or more than one-half the average crop of the colony during a period of ten years. The same tendency toward an enlargement of the importance of the barley crop is noted, and it may be attributed to the same cause, although the proportion of imported barley is smaller than in the case of corn. The production of oats has more than doubled between 1881 and 1891, and the average crop for that period is 4,500,000 bushels, yet in addition to this there is an average net importation each year of nearly 900,000 bushels. The increase in the acreage devoted to potatoes is smaller than that in other crops referred to, but this is accounted for by the fact that the home product is more than sufficient for the demand for domestic consumption, leaving an average of more than 800,000 bushels for shipment each year. It is to be noted, however, that the heaviest shipments during the decade are in the earlier years. In the last year, 1890, the balance in favor of exportation was only 60,000 bushels. The importance of tobacco in the agriculture of the colony is declining, the acreage having fallen from a little less than 2,000 in 1881, to only about 600 in 1891, and the production from 1,941,000 pounds in the first year to 36,000 in the last. During the same period there has been a considerable increase in the importations, the balance during the period being nearly 500,000 pounds per annum.

The natural advantages of the colony for live stock and animal products is exemplified by the trade in dairy products. In the matter of

butter there is an average net exportation of 1,300,000 pounds per annum, while in cheese the balance on the same side amounts to more than 700,000 pounds. In the latter article, however, it is to be noted that a strong tendency to increase of imports accompanied a decline in exports, and in 1890 the imports were greater than the exports. No definite statement of the production of wool in Victoria can be made, although the official publication purports to give the production based upon declarations made by shippers when wool is exported. It has been found, however, that these customs returns of home-grown wool are unreliable, from the fact that the wool product of other colonies is shipped as Victorian, on account of the preference shown in the market for the product of that colony. As the consumption of wool in domestic manufactures in the colony is comparatively small, an approximate idea of the production may be obtained by deducting the average imports from the average exports. The average imports for the years 1881 to 1890, inclusive, are 61,861,766 pounds, and the average exports for the same period 115,661,768 pounds. On this basis the average production would be in the neighborhood of 54,000,000 pounds, a figure which appears to be reasonable when the number of sheep in the colony is considered. In addition to the export trade in wheat already commented upon, the colony enjoys a considerable trade in flour, made up largely of exportation. The character of the flour is not specified, but is undoubtedly mainly wheat.

Production, imports, and exports.

WHEAT.

Year.	Production		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Bushels.	Value.
1881.....	977,285	10,033,976	141,167	\$111,579	3,111,510	\$3,354,255
1882.....	926,729	8,989,054	79,523	91,515	2,315,272	3,051,437
1883.....	969,362	9,027,300	24,078	24,931	1,350,608	1,733,233
1884.....	1,104,392	16,061,019	53,532	44,743	6,895,883	6,957,708
1885.....	1,096,354	10,761,999	17,673	14,254	2,161,235	1,988,145
1886.....	1,020,082	9,459,593	141,962	127,682	802,513	812,297
1887.....	1,052,685	12,481,429	96,495	86,215	2,108,670	2,026,834
1888.....	1,232,943	13,748,888	108,995	91,670	2,646,955	2,506,325
1889.....	1,217,191	8,920,285	217,785	233,595	407,435	409,097
1890.....	1,178,735	11,858,065	136,822	115,370	601,382	556,518
1891.....	1,145,163	13,153,216	.....	.....	.....	.....

CORN.

1881.....	1,769	50,853	521,566	\$515,289	705	\$710
1882.....	1,783	83,560	112,813	159,159	1,173	1,586
1883.....	2,702	135,769	259,157	290,550	375	409
1884.....	2,570	120,991	35,264	37,054	1,620	1,859
1885.....	3,854	181,948	35,139	69,844	2,770	2,428
1886.....	4,530	186,953	87,111	92,828	418	579
1887.....	4,901	238,742	38,207	35,710	38,539	28,411
1888.....	6,031	328,592	62,471	59,313	11,961	10,074
1889.....	5,789	275,576	199,471	190,319	582	715
1890.....	8,447	368,301	12,820	7,718	4,186	3,752
1891.....	10,357	592,178	.....	.....	.....	.....

Production, imports, and exports—Continued.

RYE.

Year.	Production.		Imports.		Exports.	
	Acres.	Busbels.	Busbels.	Value.	Busbels.	Value.
1881.....	1,569	14,419	.....	.....	216	\$258
1882.....	972	13,052	.....	.....	43	54
1883.....	1,137	23,977	.....	.....	250	273
1884.....	1,260	17,254	.....	.....	236	321
1885.....	939	15,994	.....	.....	329	316
1886.....	654	8,539	104	\$49	154	243
1887.....	762	11,642	993	857	5	10
1888.....	1,069	15,370	480	409	21	34
1889.....	1,109	11,083	.....	.....	214	219
1890.....	1,089	17,234	21	24	.....	.....
1891.....	948	18,137	.....	.....	.....	.....

BARLEY.

1881.....	68,630	1,102,520	11,227	\$8,268	56,053	\$40,835
1882.....	48,652	956,803	39,948	45,998	34,696	31,238
1883.....	43,721	782,384	129,294	153,246	18,746	20,118
1884.....	46,832	1,103,523	19,350	16,094	33,319	34,027
1885.....	62,273	1,116,548	101,281	91,695	10,717	10,536
1886.....	74,112	1,343,920	52,960	45,473	24,842	21,388
1887.....	37,031	853,946	217,613	228,833	11,731	10,156
1888.....	40,983	986,624	168,942	147,630	10,288	7,407
1889.....	83,483	1,167,090	459,773	472,712	13,219	12,692
1890.....	90,724	1,888,849	910	754	7,152	6,054
1891.....	87,751	1,621,136	.....	.....	.....	.....

OATS.

1881.....	134,089	2,436,889	762,753	\$427,707	121,606	\$63,089
1882.....	146,995	3,725,965	373,938	283,089	191,863	138,939
1883.....	169,892	4,586,166	502,363	303,670	85,028	51,882
1884.....	188,161	4,866,324	448,019	253,457	134,459	77,051
1885.....	187,710	4,531,153	856,706	470,659	87,544	49,833
1886.....	215,994	4,840,204	646,259	372,073	68,378	33,029
1887.....	185,765	4,390,231	1,229,306	689,895	92,781	71,898
1888.....	199,036	4,706,341	1,440,016	747,202	53,706	27,014
1889.....	197,518	2,892,176	2,329,194	1,454,913	19,244	13,422
1890.....	236,496	5,822,793	672,081	290,077	44,009	23,092
1891.....	221,048	5,074,382	.....	.....	.....	.....

POTATOES.

1881.....	45,951	4,825,781	13,440	\$5,806	628,096	\$277,833
1882.....	39,129	5,013,493	125,067	78,000	1,060,155	537,962
1883.....	34,267	4,838,587	2,800	1,119	961,333	539,622
1884.....	40,195	6,013,952	1,269	871	1,446,555	724,763
1885.....	38,763	6,015,109	1,307	720	1,318,875	504,384
1886.....	42,602	6,092,875	3,211	1,762	1,210,347	586,569
1887.....	49,974	6,371,344	100,725	41,253	395,435	184,251
1888.....	48,263	7,400,400	6,272	3,256	1,116,341	458,916
1889.....	43,074	4,896,229	72,800	52,991	341,413	280,369
1890.....	47,139	5,865,216	190,624	108,250	251,664	13,422
1891.....	53,818	7,621,787	.....	.....	.....	.....

Production, imports, and exports—Continued.

TOBACCO.

Year.	Production.		Imports.		Exports.	
	Acres.	Pounds.	Pounds.	Value.	Pounds.	Value.
1881.....	1,990	1,941,296	369,657	\$92,965	177,965	\$43,146
1882.....	1,461	1,442,112	343,584	104,357	162,535	46,879
1883.....	1,313	635,376	327,780	106,411	32,222	13,592
1884.....	1,325	1,021,888	462,286	143,995	28,977	12,468
1885.....	1,402	884,016	450,121	133,430	6,203	2,969
1886.....	1,866	1,538,208	792,965	140,905	750	243
1887.....	2,031	1,344,896	384,224	106,815	27,878	8,190
1888.....	1,966	1,327,536	486,659	161,217	84,762	20,016
1889.....	1,685	1,495,760	684,228	202,982	25,408	9,495
1890.....	955	461,776	971,340	273,123	163,270	43,560
1891.....	618	36,512				

BUTTER AND CHEESE.

Year.	Butter.				Cheese.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....	7,870	\$1,168	1,954,054	\$337,847	11,721	\$2,789	1,216,979	\$133,606
1882.....	347,650	103,934	1,397,350	328,571	129,353	22,853	1,301,015	225,489
1883.....	21,165	4,774	1,705,225	371,883	83,195	14,765	1,182,870	201,590
1884.....	10,752	2,132	2,223,920	497,950	37,012	5,971	1,418,275	210,345
1885.....	123,582	24,678	1,372,398	335,959	77,936	13,884	1,044,435	168,527
1886.....	61,369	12,745	1,260,557	298,978	120,271	20,142	895,347	143,713
1887.....	52,283	10,327	809,115	142,170	179,584	25,885	472,934	68,584
1888.....	55,412	12,556	1,202,649	264,587	48,955	8,667	535,970	70,876
1889.....	81,227	18,381	1,029,742	183,949	157,310	23,330	312,469	41,900
1890.....	713,282	145,445	1,627,405	293,825	249,399	35,423	222,494	29,291

WOOL AND COTTON.

Year.	Wool.				Cotton.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....	59,345,348	\$14,050,851	103,449,080	\$26,522,566	66,742	\$7,344	3,010	\$423
1882.....	53,839,219	13,308,700	108,023,601	28,724,876	158,646	11,495	19,123	2,399
1883.....	45,520,395	9,945,121	109,615,884	29,464,531	117,737	13,242	68,151	9,529
1884.....	59,675,280	12,535,642	119,542,240	30,867,611	287,969	30,508	37,788	6,492
1885.....	54,685,900	10,715,877	106,278,038	24,468,815	102,771	9,057	45,138	7,577
1886.....	52,196,663	11,346,727	108,034,839	24,330,855	332,402	20,279	9,332	813
1887.....	68,630,753	13,523,648	115,460,681	24,689,769	72,068	6,239	448	29
1888.....	65,963,561	13,159,308	118,453,558	25,164,097	242,496	15,845	1,344	389
1889.....	80,390,758	17,497,048	135,606,550	28,832,734	11,484	1,445		
1890.....	78,369,780	15,525,298	132,148,207	28,875,879	163,956	14,483	4,128	652

FLOUR.

Year.	Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.
1881.....	713,200	\$16,707	40,999,500	\$1,027,557
1882.....	2,529,300	78,302	50,125,300	1,496,093
1883.....	3,021,400	78,122	49,179,300	1,303,774
1884.....	3,508,600	86,341	64,494,000	1,457,230
1885.....	2,739,900	56,573	73,155,300	1,551,829
1886.....	3,726,800	77,557	72,843,500	1,726,790
1887.....	2,808,600	62,004	86,523,400	2,066,671
1888.....	2,934,000	58,641	84,585,900	1,956,479
1889.....	1,259,200	34,070	52,681,200	1,456,470
1890.....	2,514,600	55,269	78,902,100	1,820,801

WESTERN AUSTRALIA.

The data as to the production and trade of this colony are taken from the *Western Australian Year Book*, and supplemented to some extent by compilations from an official publication, *The Seven Colonies of Australasia*.

This colony is the largest in extent of any of the seven, and at the same time is smallest in population and most backward in material development. The area devoted to wheat production shows a steady increase from year to year, the crop averaging 344,000 bushels per annum for the period 1881 to 1890, inclusive. In addition to this there is a small annual importation, but no record of exportation appears, and the same statement, so far as exports are concerned, is true in the case of all the grains considered in this report, and of potatoes. The average production of potatoes is 44,000 bushels, and the average importation about 36,000 bushels. Dairy products appear only as being imported into the colony, the average imports of butter amounting to 346,000 pounds, and of cheese 146,000. The exports of wool form a very prominent part of the foreign trade of the colony, and show a marked and steady increase during the period presented. In addition to the authorities already mentioned, part of these data in the case of wool are drawn from the *Blue Book of Western Australia*, another official publication. The average exportation during the period is something more than 6,000,000 pounds, and in 1889 and 1890 it was more than 9,500,000 pounds. In the statement of imported flour the cereal from which it is made is not specified.

Production, imports, and exports.

WHEAT AND CORN.

Year.	Wheat.				Corn.			
	Production.		Imports.		Production.		Imports.	
	Acres.	Bushels.	Bushels.	Value.	Acres.	Bushels.	Bushels.	Value.
1881.....	21,951	158,500						
1882.....	22,718	257,775						
1883.....	28,768	385,772						
1884.....	29,416	394,453						
1885.....	29,511	350,073	1,347	\$1,747			1,807	\$1,387
1886.....	24,043	297,610	855	1,110			8,244	6,322
1887.....	27,512	278,109	24,641	31,968	164	1,818	3,267	2,506
1888.....	30,740	332,932	13,080	15,427	61		12,316	8,716
1889.....	35,517	512,911	12,721	15,003	80		7,283	5,154
1890.....	33,820	479,683	3,141	2,964	81		4,291	3,037

Production, imports, and exports—Continued.

BARLEY AND POTATOES.

Year.	Barley.				Potatoes.			
	Production.		Imports.		Production.		Imports.	
	Acres.	Bushels.	Bushels.	Value.	Acres.	Bushels.	Bushels.	Value.
1881.....	3,679	37,950	.....	.....	278	20,757	.....	.....
1882.....	4,766	68,827	.....	.....	267	24,901	.....	.....
1883.....	5,547	91,566	.....	.....	310	34,720	.....	.....
1884.....	5,616	95,581	.....	.....	500	56,000	.....	.....
1885.....	6,178	92,405	6,334	\$5,601	434	40,507	23,744	\$12,380
1886.....	5,185	85,426	4,820	4,263	356	39,984	42,264	22,036
1887.....	5,935	71,907	5,075	4,487	474	42,186	48,293	25,179
1888.....	5,009	77,297	4,559	3,226	481	73,696	34,356	17,914
1889.....	5,475	96,009	5,385	3,810	462	51,744	30,165	15,729
1890.....	5,322	90,581	3,432	2,428	510	61,787	34,944	15,943

OATS AND TOBACCO.

Year.	Oats.				Tobacco.			
	Production.		Imports.		Imports.		Exports.	
	Acres.	Bushels.	Bushels.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....	827	8,531	.....	.....	.....	.....	.....	.....
1882.....	1,025	15,860	.....	.....	.....	.....	.....	.....
1883.....	1,395	24,462	.....	.....	.....	.....	.....	.....
1884.....	1,452	26,964	.....	.....	.....	.....	.....	.....
1885.....	1,596	23,871	50,429	\$38,659	1,212	\$297	.....	.....
1886.....	1,766	29,411	48,445	37,141	.....	.....	.....	.....
1887.....	1,680	26,225	117,468	90,055	5,859	1,426	.....	.....
1888.....	1,787	43,171	77,529	54,865	108,500	26,401	33,545	\$8,161
1889.....	2,075	42,808	55,001	38,922	900	219	.....	.....
1890.....	1,934	38,902	103,292	60,914	110,697	13,894	.....	.....

BUTTER AND CHEESE.

Year.	Butter—imports.		Cheese—imports.	
	Pounds.	Value.	Pounds.	Value.
1885.....	237,604	\$48,178	115,020	\$20,989
1886.....	305,180	61,882	154,594	28,211
1887.....	379,293	76,910	162,473	29,652
1888.....	371,928	75,416	138,320	25,243
1889.....	400,320	81,173	170,586	31,131
1890.....	384,552	77,976	139,173	25,398

WOOL AND FLOUR.

Year.	Wool.				Flour—	
	Imports.		Exports.		Imports.	
	Bales.	Value.	Pounds.	Value.	Pounds.	Value.
1881.....	.....	.....	4,107,630	\$1,249,177	.....	.....
1882.....	.....	.....	4,819,758	1,465,955	.....	.....
1883.....	.....	.....	3,861,927	1,096,320	.....	.....
1884.....	.....	.....	4,272,948	1,212,999	.....	.....
1885.....	26,344	\$14,424	4,968,000	1,208,839	3,727,584	\$97,179
1886.....	26,983	14,775	6,139,917	1,618,496	3,209,864	83,684
1887.....	22,466	12,298	6,675,713	1,624,370	10,144,792	264,480
1888.....	35,768	21,758	8,475,240	2,062,238	10,297,280	223,713
1889.....	40,584	24,688	9,501,695	1,926,667	8,303,680	180,401
1890.....	35,530	17,291	9,625,632	1,756,617	6,237,504	135,513

ISLANDS OF THE SEA.

BRITISH POSSESSIONS.

The only British colony classed among islands of the sea is Fiji. The data presented in the following statement, as in the case of other British colonies, is derived from the British official publication, *Colonial and other Possessions of the United Kingdom*, parts 17, 18, and 19. It would appear that comparatively little corn is raised now, and the decline in production is reflected in the decline in the export trade in that product. From 1882 to 1887 the exports of corn are given in bags, but no equivalent in bushels is at hand. In the case of wool the figures presented seem to indicate that the production is about stationary. It should be understood in all cases that the statements of production are intended to include only the production on plantations owned or managed by other than native holders.

FIJI.

Production and exports.

CORN AND TOBACCO.

Year.	Corn.					
	Production.		Exports.		Tobacco—production.	
	Acres.	Bushels.	Bushels.	Value.	Acres.	Pounds.
1880.....	1,683	39,238	66,092	\$46,772	50	3,776
1881.....			35,327	24,999		
			<i>Bags.</i>			
1882.....	960	22,763	4,830	13,804	65	22,982
1883.....	1,026	18,394	5,095	19,836	33	15,746
1884.....	545	9,697	3,180	12,380	18	11,450
1885.....	396	5,290	3,915	15,242	39	11,926
1886.....	561	7,861	4,057	11,845	28	10,838
1887.....	403	3,160	3,812	11,159	12	3,800

WOOL AND COTTON.

Years.	Wool—exports.		Cotton.		Exports.	
	Pounds.	Value.	Production.		Bales.	Value.
			Acres.	Pounds.		
1880.....	14,000	\$3,188	5,176	1,733,760	2,276	\$221,572
1881.....	12,880	4,721			1,755	170,814
1882.....		3,197	2,604	1,438,080	1,596	155,339
1883.....		3,947	2,152	573,440	1,262	122,830
1884.....		1,611	3,231	255,360	661	74,501
1885.....		3,450	1,471	235,200	252	25,846
1886.....		3,183	95	26,880	313	29,807
1887.....		3,528	305	3,360	163	14,084

FRENCH POSSESSIONS.

The French Possessions classed as islands of the sea include New Caledonia and Tahiti. The data, as in the case of all other French colonies, is drawn from *Statistiques Coloniales*, and its unsatisfactory character has been commented upon in the introduction to the French Possessions in Asia.

NEW CALEDONIA.

Imports and exports.

CORN, OATS, BARLEY, AND POTATOES.

Year	Corn.		Oats—imports.		Barley—imports.		Potatoes—imports.	
	Imports (value).	Exports (value).	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1887.....	\$4,632	\$25,182	896	\$627	493	\$414	39,424	\$20,894
1888.....	2,987	28,753	.....	440	.....	.....	19,215	20,254
1889.....	2,522	28,576	794	556	.....	.....	31,041	24,897

TOBACCO, BUTTER, CHEESE, AND FLOUR.

Years.	Tobacco—imports.		Butter—imports.		Cheese—imports.		Flour—imports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1887.....	16,424	\$1,728	39,825	\$12,204	48,453	\$11,864	9,272,548	\$202,952
1888.....	128,264	43,139	34,881	9,161	61,447	14,497	8,333,388	182,331
1889.....	24,608	3,231	49,398	12,973	63,709	13,127	9,429,074	206,375

TAHITI.

Imports and exports.

WHEAT AND FLOUR.

Year.	Wheat—imports.		Flour.			
			Imports.		Exports.	
	Bushels.	Value.	Pounds.	Value.	Pounds.	Value.
1883.....	.....	.....	1,906,703	\$48,449	.....	.....
1884.....	693	\$629	1,941,854	49,131	212,889	\$5,687
1885.....	782	651	2,203,756	48,203	188,656	5,606
1886.....	988	841	1,939,828	43,346	116,524	4,043
1887.....	1,316	1,306	2,121,555	49,704	154,728	4,753
1888.....	1,220	1,058	3,391,493	55,533	61,288	1,768
1889.....	1,437	1,285	2,227,144	49,349	71,724	1,899

BARLEY, OATS, AND POTATOES.

Year.	Barley—imports.		Oats—imports.		Potatoes.			
					Imports.		Exports.	
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
1884.....	.....	.....	.....	4,988	\$3,358	123	\$164	
1885.....	.....	.....	.....	4,893	2,578	164	269	
1886.....	.....	.....	.....	4,679	2,968	200	261	
1887.....	9,953	\$5,245	206	\$98	4,760	2,865	47	562
1888.....	9,419	4,167	226	107	4,381	2,187	35	76
1889.....	10,699	4,470	70	60	4,903	2,927	.....	.....

Imports and exports—Continued.

TOBACCO, BUTTER, AND CHEESE.

Year.	Tobacco—imports.		Butter.				Cheese—imports.	
			Imports.		Exports.			
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1883.....		\$4,194						
1884.....		5,425						\$1,881
1885.....		6,807			1,662	\$592		2,129
1886.....		6,143			1,378	364	9,061	1,363
1887.....		6,386	36,777	\$6,898	2,822	562	13,056	1,550
1888.....		6,418	34,493	9,260	913	168	9,442	1,734
1889.....	11,592	3,043	37,134	8,741	723	367	11,493	1,474

WOOL AND COTTON.

Year.	Wool.				Cotton.			
	Imports.		Exports.		Imports.		Exports.	
	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.
1883.....			28,093	\$3,689	794,384	\$62,557		
1884.....	26,660	\$1,882	43,988	5,717	999,173	113,278		
1885.....	31,504	4,137	65,439	6,019	855,890	64,265	1,027,207	\$175,227
1886.....	11,340	979	15,077	1,311	779,095	41,890	675,364	103,106
1887.....	37,994	3,820	41,949	3,694	562,762	36,027	715,027	105,773
1888.....	37,478	492	11,724	477	286,089	18,848	353,483	54,419
1889.....	15,644	1,283	26,140	2,618	64,187	4,748	361,662	54,303



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