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A Handbook of Dairy Statistics

By T. R. PIRTLE, Dairy Division



UNITED STATES DEPARTMENT OF AGRICULTURE

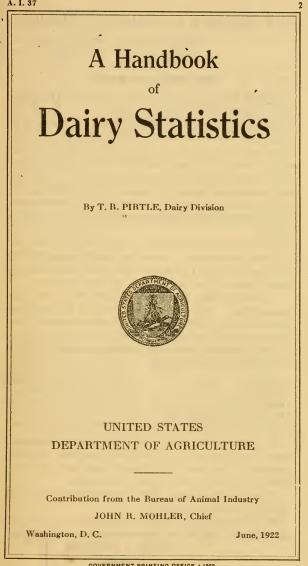
Contribution from the Bureau of Animal Industry JOHN R. MOHLER, Chief

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A HANDBOOK OF DAIRY STATISTICS.

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EXPLANATORY NOTE.

Original sources and final figures are used in the tables where practicable. Preliminary figures, i. e., figures not finally verified, have been presented in a few instances to bring them up to date; but such figures are always so indicated in the tables. Many countries have found it necessary to revise the statistics gathered during the war, especially those relating to the number of cattle. During the war preliminary figures were not always indicated, but later checking up has shown them to be approximately correct, although the final figures vary from them to some extent.

(YB.) used in connection with a table indicates that the table may be continued to cover the latest figures available by reference to the Yearbook of the United States Department of Agriculture, as well as to the original source.

"Special imports" are imports brought into a country for consumption. "General imports" are for all purposes, and a part may be reexported. "Domestic exports" are of goods produced within a country.

Units of weight used to convert foreign or metric weights to pounds, United States, are:

	Pounds.
1 kilogram	2.2046
1 quintal	220.46
1 poud (Russian)	36.1128
1 hundredweight (English)	112.
1 pound (Spanish pound for Cuba)	1.0161

The terms "dairy cows" and "cows" do not mean the same, the latter term including cows not used for dairy purposes. The number of "cows" was used when the number of "dairy cows" was not obtainable.

Where blank spaces are left in tables records were not made or were not available.

When figures are given for any year it may be assumed that it is the calendar year unless otherwise stated, although

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some of the authorities are indefinite on this point. Where the fiscal year is used, the date of ending is often changed in the middle of the series of years given.

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The sources of the data quoted from United States Government publications are as follows: Department of Agriculture—Bureau of Animal Industry, Bureau of Statistics,¹ Bureau of Crop Estimates,² and Bureau of Markets,² Department of Commerce—Census Bureau and Commerce and Navigation Reports; Treasury Department—Bureau of Internal Revenue.

Reconstruction of territory recognized in all countries, 1919 and later.

¹ Bureau of Statistics is a former designation for the Bureau of Crop Estimates.

² The Bureau of Markets and the Bureau of Crop Estimates were consolidated July 1, 1921, and are now known as the "Bureau of Markets and Crop Estimates."

THE STATISTICS of an industry show its trend and form a basis for action toward it⁻ best development. Because data regarding dairy products and the trade in dairy products have never been brought together for convenient reference, attention has not been given to the trend of dairying in the degree that its importance warrants. To remedy this condition this volume has been prepared. In it will be found the available statistics on dairy production and trade which may be of value to the dairy industry.

GENERAL STATISTICS.

TABLE 1.-POPULATION of various countrieg.

[Statesman's Year Book.]

Country.	Year.	Population.
Argentina	1 1915	8,288,779
Do	² 1919	8 279 159
Australia	1 1918	4,981,000
Do	1919	
Austria-Hungary	4 1910	49 211 727
Do	1919	16.067,430
Belgium	1 1911	7,490,411
Do	1919	7,490,411 7,555,576
Canada	3 1915	8,134,000
Denmark	4 1918	3,005,000
Do.	1919	2,940,979
France.	4 1913	39,674,000
Do	1919	41, 475, 523
Germany.	4 1910	64,925,993
Do.	1919	55,086,000
India, British	4 1911	315,083,000
Italy.	1 1916	36,716,522
Do	1919	36,740,000
	1 1916	55 065 000
Japan		55,965,292
Do.	1919	57,070,000
Netherlands	3 1916 1010	6,583,227
Do.	1919	6,778,699
New Zealand	1 1918	1,150,000
Norway	1 1916	2,541,003
Do	1919	2,632,010 12,467,300 30,072,181
Poland	1 1911	12,467,300
Do	1919	30,072,181
Russia:		
Empire	1 1911	167,003,400
European	1919	131, 700, 800
Siberia	1 1911	8,719,200
South Africa (British)	1 1918	7,000,000
Spain	1 1918	8,719,200 7,000,000 20,095,272
Do	1919	20, 719, 598
Sweden	4 1911	5, 522, 403
Do	1919	5,813,850
Switzerland	3 1915	3,880,500
Do.	1919	3,937,000
United Kingdom	1 1914	46,089,249
Do	1919	46,000,000
United States.	3 1915	98,635,073
	4 1920	105,710,620
Do		
Do Uruguay	1 1918	1,409,000

Estimate.
 Source or method of estimate not stated for 1919.
 Prorated.
 Census.

TABLE 2.-Average YIELD of MILK per year of milk cows in various countries.

			-	
Country.	Year.	Average yield of milk.	Country.	Yeår.
Netherlands Switzerland United Kingdom Denmark	1902 1914 1914 1914 1914	Pounds. 7,585 6,950 5,934 5,666 4,350	Norway Sweden Japan. Hungary	1910 1911 1918 1914 1916

Australia.....

Italy.....

Chile..... Siberia.....

Germany.....

Canada.....

United States.....

Do.....

1912

1911

1920

[Various sources.]

Average

yield of milk.

Pounds.

1916

1914

1916

anas. 3,680 3,600 2,932 2,719 2,279 1,520 1,192

TABLE 3.—Average per capita CONSUMPTION of WHOLE MILK in various countries per year.

4,350 3,779 3,716 3,627

[Numerous authorities.]

Country.	Year.	Milk con- sumed.	Country.	Year.	Milk con- sumed.
Sweden Deumark. Switzerland Germany. Belgium. United States Do	1895	$\begin{matrix} Gallons, \\ 69.7 \\ 68.5 \\ 67.4 \\ 61.0 \\ 44.0 \\ 42.4 \\ 43.0 \end{matrix}$	Netherlands Canada. Hungary United Kingdom Italy. Hawaii	1902 1916 1914 1914 1913 1916	Gallons. 39.5 26.0 24.3 22.2 4.2 1.0

TABLE 4.-Average per capita CONSUMPTION of BUTTER in various countries per year.

[Numerous authorities.]

Country.	Year.	Butter con- sumed.	Country.	Year.	Butter con- sumed.
Canada. Australia New Zealand Denmark United States Do United Kingdom	1911 1913 1914 1914 1909 1919 1919	Pounds. 27. 7 25. 6 21. 7 19. 0 17. 5 15. 5 17. 0	Netherlands Sweden. Germany. Norway. Switzerland Italy. Argentina ¹ .	1917 1917 1913 1906 1914 1913 1913	Pounds. 16.8 16.5 14.7 14.0 12.1 2.5 1.8

¹ Factory butter only.

TABLE 5.—Average per capita CONSUMPTION of CHEESE in various countries per year.

11	V	u	m	er	0	us	a	u	tl	h)I	ŕ	ti	es	.1	

Country.	Year.	Cheese con- sumed.	Country.	Year.	Cheese con- sumed.
Switzerland Netherlands Denmark United Kingdom Germany France Norway	1914 1912 1914 1905 1912 1892 1910	Pounds. 26.4 13.3 12.3 11.2 9.5 8.1 7.1	Italy Australia. United States ¹ Do. ¹ . Canada, New Zealand Argentina ³ .	1913 1913 1919 1909 1911 1914 1913	Pounds. 4.8 4.8 24.2 3.8 3.0 3.0 2.9

¹Census. ²Including cottage cheese. ³Factory cheese only.

TABLE 6.-Trend of COW-TESTING ASSOCIATIONS.

[Cooperative Danish agricultural societies and Canada News Letter, No. 15, 1920.]

		Early records.					
Country.	Year begun.	Year re- ported.	Num- ber of associa- tions.	Mem- bers.	Cows.		
Denmark. Germany. Sweden. Norway. Finland. Holland Scotland. Canada. Austria. England. United States.	$\begin{array}{c} 1895\\ 1897\\ 1898\\ 1898\\ 1900\\ 1900\\ 1903\\ 1904\\ 1904\\ 1905\\ 1906 \end{array}$	1916 1914 1911 1914 1916 1910 1914 1914 1914 1911 1915 1917	676 792 682 138 242 	15, 865 13, 209 9, 950 4, 369 641 2, 109 398 11, 720	$\begin{array}{c} 239,790\\ 351,857\\ 203,716\\ 36,882\\ 82,276\\ 77,000\\ 26,424\\ 19,156\\ 16,000\\ 9,800\\ 211,986\end{array}$		

La	ter record	S.

Country.	Year begun.	Year re- ported.	Num- ber of associa- tions.	Mem- bers.	Cows.
Denmark. Germany. Sweden. Norway. Finland. Scotland. Canada. England. United States. Do.	$ 1893 \\ 1898 \\ 1900 \\ 1903 \\ 1904 \\ 1905 \\ 1906 $	1919 1919 1919 1919 1919 1918 1920 1919 1919 1919 1920	636 333 427 102 142 22 	15,0004,5605,5032,0802,4634263,84710,00011,918	208, 900 135, 540 102, 812 23, 286 41, 927 17, 827 33, 382 32, 000 167, 313 203, 472

[Numerous authorities.]							
Country.	Year.	Production.	Exports.				
United States. Do. Germany. Russia (including Siberia). France. Denmark Australia. Canada. United Kingdom	1909 1919 1913 1913 1914 1914 1914 1916 1911 1908	Pounds. 1, 621, 000, 000 1, 648, 505, 382 851, 840, 000 286, 538, 000 286, 598, 000 257, 484, 000 182, 469, 000 201, 808, 000 107, 000, 000	Pounds. 5,981,000 34,556,485 602,000 172,003,000 44,619,000 210,084,000 16,722,000 3,142,000 1,125,000				
United Kingdom Netherlands	$ 1916 \\ 1916 \\ 1916 \\ 1914 $	$\begin{array}{c}1177,000,000\\147,835,000\\2110,000,000\\63,273,000\\262,135,000\\37,000,000\\20,518,000\\15,980,000\end{array}$	$\begin{array}{c} 1,125,000\\ 86,307,000\\ 9,310,000\\ 40,167,000\\ 28,704,000\\ 2,646\\ 7,676,000\\ (3)\end{array}$				
Union of South Africa	1916	15, 980, 000	(3)				

TABLE 7.—PRODUCTION and EXPORTATION of BUTTER for various countries.

¹ Factory butter only, for Ireland. ² Factory butter only. ³ None.

TABLE 8.-Approximate amount of MILK SOLIDS in dairy products.

[Various authorities.]

Product.	Milk solids (includ- ing fat).
Milk: Whole milk Skim milk Condensed, sweetened (legal) ¹ . Condensed and evaporated, not sweetened (legal) Condensed and evaporated skim milk, sweetened (legal) Fowder—	
Whole milk (legal). Skim milk (legal). Cream Malted (7 per cent fat). Buttermilk. Sugar. Chocolate. Whey Buttermilk.	95.0 72.7
Cream: 20 per cent fat. 40 per cent fat. Butter, 82 per cent fat. Cheese: Cheddar (milk with 4 per cent fat).	26.7 43.5 83.0 63.0
Cottage. Ice cream: 10 per cent fat. 14 per cent fat.	62. 6 20. 0 20. 0

¹ U. S. Dept. of Agriculture, B. A. I. Cir. 36. ² The moisture of whole and skimmed-milk powder commercially is about 2 per cent.

TABLE 9.--STANDARDS of BUTTERFAT and limit of MOISTURE in BUTTER in various countries.

Country.	Butterfat (min.).	Moisture (max.).
Great Britain		Per cent. 16.0
Australia	82.0	16.0
Victoria	80.0	15.0
West Australia	82.0	15.0
Argentina.	82.0	16.0
Sweden		16.0
Italy	82.0	
Russia		16.0
Germany:		
Salted	80.0	16.0
Unsalted	82.0	18.0
Finland		16.0
Switzerland (six cantons)	82.0	15.0
Denmark	82.5	16.0
United States.	82.5	(1)

[Various sources.]

¹ Below 16,

TABLE 10.-WEIGHT of MILK and CREAM, with varying per cent of fat content at 68° F.

[Department of Agriculture Bulletin 98.]

Product.	Fat con- tent.	Weight per gallon.
Skim milk. Whole milk Do. Do. Do. Do. Do. Modified milk Cream Do. Do. Do. Do. Do. Do. Do. Do. Do. Do.	$\begin{array}{c} Per \ cent \\ by \ weight. \\ 0.02 \\ 3.00 \\ 5.5 \\ 4.0 \\ 5.0 \\ 10.0 \\ 12.0 \\ 15.0 \\ 20.0 \\ 25.0 \\ 35.0 \\ 40.0 \end{array}$	Pounds. 8.63 8.60 8.58 8.58 8.57 8.53 8.50 8.47 8.43 8.39 8.31 8.28

Milk is generally figured at 8.6 pounds and cream (18 to 20 per cent fat) at 8.4 pounds per gallon.

TABLE 11.—PROPORTION of YEARLY BUTTERFAT RECEIPTS, received monthly by creameries in Iowa, Minnesota, and Wisconsin, for the years 1913 to 1916.

Month.	Butterfat.	Month.	Butterfat.
January February March April. May June July	$\begin{array}{r} 6.46 \\ 7.11 \\ 7.45 \\ 10.71 \\ 12.33 \end{array}$	August September October November. December. Total.	8.65 7.53 6.07

[Dairy Division, Bureau of Animal Industry.]

TABLE 12.-NORMAL FOOD for the United Kingdom.

[Royal Society Food Comm., Mar. 30, 1917.]

Food.	Food energy.
Cereals	13 8 12
Total	100

TABLE 13.-QUANTITY of MILK used at United States Dairy Experiment Farm, Beltsville, Md., to raise a calf.

	Quantity of feed consumed.			
Feed.	During first 6 months. ¹	During first year. ¹	During two years. ²	
Milk Skim milk. Grain Hay, alfalfa. Silage, corn.	Pounds. 125.3 2,486.1 317.7 112.1 728.5	Pounds. 125.3 2,486.1 883.3 566.1 3,647.5	Pounds. 125.3 2,486.1 2,107.3 1,599.1 11,164.6	

¹ Average of 12 calves. ³ Average of 11 calves; 4 of the calves were purebred or grade Hol-steins and 7 were purebred or grade Guernseys. Average live weight at two years, 861 pounds.

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UNITED STATES STATISTICS.

TABLE 14.—Number and percentages of CATTLE of various BREEDS in the United States, 1920.

Cattle.	Total in United States.		North Atlantic States.	North Central, East.	North Central, West.	South Atlantic.	South Central.	Far West.
Aberdeen Angus Brown Swiss Devon Galloway Guernsey Hereford Holstein Polled Durham Red Polled Shorthorn Other breeds Nondescript Total	Number. 2, 479,000 172,000 175,000 534,000 1,933,000 14,302,000 9,554,000 1,069,000 9,554,000 1,772,000 1,772,000 2,107,000 2,107,000 68,230,000	$\begin{array}{c} 3.6\\ .6\\ .3\\ .2\\ .8\\ 2.9\\ 21.0\\ 16.2\\ 14.0\\ 1.5\\ 2.6\\ 22.6\\ 3.1\\ 10.3\\ \end{array}$	$\begin{array}{c} 4.8 \\ .4 \\ .4 \\ .4 \\ .1 \\ 8.8 \\ 1.7 \\ 54.0 \\ 14.3 \\ .1 \\ .2 \\ 5.4 \\ 2.2 \\ 6.9 \\ \hline \end{array}$	$\begin{array}{r}.4\\.7\\.1\\.7\\6.3\\7.8\\29.3\\15.3\\1.8\\1.7\\23.3\\2.1\\6.8\end{array}$	8.7 4.8 1.9 3.3 $36.22.37.3$	$\begin{array}{c} .3\\ .1\\ .7\\ .2\\ 3.6\\ 9.1\\ 9.0\\ 29.5\\ .4\\ 1.6\\ 9.5\\ 6.8\\ 26.2\\ \end{array}$	$\begin{array}{c} .3\\ .7\\ .3\\ .4\\ 22.5\\ 5.2\\ 23.8\\ 2.4\\ 5.4\\ 15.9\\ 4.9\\ 15.0\\ \end{array}$	40.9 14.9 8.8 .9 .5 21.9 1.8 7.2

[Bureau of Markets and Crop Estimates.]

The information was brought out by an inquiry sent to 14,000 special livestock reporters of the bureau. Grades and scrubs were included in the breed in which the type predominated.

TABLE 15.—Number and value of CATTLE EXPORTED from the United States.

Year ended		attle.	Year ended June 30.	Cattle.		
June 30.	Number.	Value.		Number.	Value.	
1900 1901 1902 1903 1904 1904 1905 1906 1907 1908 1909 1910	459, 218 392, 884 402, 178 593, 409 567, 806 584, 239 423, 051 349, 210 207, 542	30, 635, 153 37, 566, 980 29, 902, 212 29, 848, 936 42, 256, 291 40, 598, 048 42, 081, 170 34, 577, 392 29, 339, 134 18, 046, 976 12, 200, 154	1911. 1912 1913 1914 1916 1917 1918 1919 1920 1921	$\begin{array}{c} 150,100\\ 105,506\\ 24,714\\ 18,376\\ 5,484\\ 21,287\\ 13,387\\ 18,213\\ 42,345\\ 83,039\\ 145,623\\ \end{array}$	\$13, 163, 920 8, 870, 075 1, 177, 199 647, 288 702, 847 2, 378, 248 949, 503 1, 247, 800 2, 092, 816 11, 921, 518 10, 950, 507	

[Commerce and Navigation Reports; (YB.).]

TABLE 16.—Number of DAIRY COWS and OTHER CATTLE on farms in the United States from 1840 to 1922.

Year.	Milk cows on farms. ¹	Other cattle.	Year.	Milk cows on farms. ¹	Other cattle.
1840 ² 1850 ² 1860 ² 1870 ² 1890 ² 1890 ² 1900 ² 1910 ² 1920 ²	8, 585, 735 8, 935, 332 12, 443, 120	10, 171, 586 11, 393, 813 17, 034, 284 13, 566, 005 22, 488, 550 33, 734, 128 50, 083, 777 41, 178, 434 47, 139, 059	1911 * 1912 * 1913 * 1914 * 1915 * 1916 * 1917 * 1918 * 1919 * 1919 * 1920 * 1921 *	20, 823, 000 20, 699, 000 20, 497, 000 20, 737, 000 21, 262, 000 22, 108, 000 23, 310, 000 23, 455, 000 23, 455, 000 23, 722, 000 ⁴ 23, 594, 000	39,679,000 37,260,000 36,030,000 35,855,000 37,067,000 39,812,000 41,689,000 41,689,000 45,085,000 43,398,000 41,993,000
	•		1922 4	24,028,000	41, 324, 000

[Census Bureau and Bureau of Markets and Crop Estimates.]

¹ The number of cows within towns and villages amounts to 2,000,000. ² Census. The census report figures are for June 1, except for 1910, which is for April 15; and 1920, which was for January 1.

⁸ Estimates, January 1.

⁴ Preliminary. ⁵ Dairy breeds only.

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TABLE 17 .--- Kind and number of PUREBRED CATTLE imported into the United States from 1885 to 1920, inclusive.

[Bureau of Animal Industry.]

Breed.	Number.	Breed.	Number.
Angeler. Angus. Ayrshire. Zebu (buffalo). Danish. Devon. Dutch Belted. Shorthorn. French Galloway. Guernsey.	147501,76244151692,4916250410,114	Hereford. Highland. Holstein. Jersey. Kerry and Dexter Red and Polled. Simmenthal. Sussex. Brown Swiss. Total	799 19 1, 864 6, 304 243 520 24 35 83 25, 753

The figures for 1919 and 1920 include only those brought from over-seas, as data on purebreds from Canada are not available. Records of importations from Canada were incomplete for a large portion of this period.

farms in		Other dairy breeds.	312 504	303 1, 383 431	352	99 484 267	2,400 993 3,754 695 302	111 508 292 1,875
breeds on	by breeds.	Jersey.	4,608	4, 627 3, 832 1, 605	2,257	2,380 6,224 1,579	7, 317 9, 921 3, 629 4, 784 6, 421	2, 201 2, 999 8, 296 8, 296
e of dairy	Purebred dairy cattle by breeds.	Holstein- Friesian.	1, 142 1, 778	2,001 12,189 4,057	4, 859 1, 245	1,700 2,049	$\begin{array}{c} 25,124\\ 8,477\\ 8,477\\ 10,916\\ 10,408\\ 2.046\end{array}$	$1,009 \\ 7,206 \\ 4,073 \\ 10,006 \\ 32,702$
XED cattle	Purebred	Guernsey.	46 48	1, 145	1,566 246	68 305 197	1,369 1,215 1,716 1,716 477 40	94 1,836 1,867 3,348 3,369
f PUREBH		Ayrshire.	109	595 114	1,2	46 46	202 509 694 201 202	1, 134 1, 880 1, 880 1, 880 291
1 number of PURJ 1920. [Bureau of the Census.]	Total	purebred dairy cattle.	6,108 3.108	6,950 19,144 6,448	10,284 1,663	2, 930 8, 727 4, 138	36,412 21,115 20,286 17,058 8,829	3,415 15,683 15,688 8,668 18,807 46,533
rLE and 1 [^B	Totol	rotat purebred cattle.	10, 633 8. 455	13, 486 32, 388 33, 610	10,961	4, 338 13, 124 19, 376	$109, 996 \\ 50, 624 \\ 171, 645 \\ 97, 723 \\ 19, 693 $	6, 498 18, 202 9, 588 19, 993 62, 800
r of CAT7		Total cattle.	$1,044,008\\821.918$	$1,072,966 \\ 2,008,037 \\ 1,756,616$	173, 764 46, 509	1, 157, 432 $714, 903$	$\begin{array}{c} 2,803,389\\ 1,546,095\\ 4,567,708\\ 2,975,390\\ 1,093,453\end{array}$	804, 241 300, 747 300, 747 283, 377 216, 099 1, 537, 214
TABLE 18.—Total number of CATTLE and number of PUREBRED cattle of dairy breeds on farms in 1920. [Bureau of the Census.]		State.	Alabama. Arizona	Arkansas. California. Colorado.	Connecticut. Delaware.	Florida. Georgia Idaho.	Illinois. Indiana Iowa. Kansas Kentucky	Louisiana Maine. Maryland. Masachusetts. Michigan.

${\begin{array}{c}2,463\\364\\1,890\\249\\808\end{array}}$	$ \begin{array}{r} 44 \\ 342 \\ 3$	2,732 807 603 437	2,786 47 143 689 689 429	$1,595 \\ 153 \\ 153 \\ 689 \\ 482 \\ 300 \\ 30$	$5, \frac{165}{842}$ 105	46, 553
$\begin{array}{c c}2,508\\6,571\\10,708\\1,275\\1,275\end{array}$	$133 \\ 1,348 \\ 1,368 \\ 507 \\ 13,411 \\ 13,411 \\ 13,1111 \\ 13,111 \\ 13,1111 \\ 13,1111 \\ 13,1111 \\ 13,1111 \\ 13,1111 \\ 13,$	$\begin{array}{c} 4, 978 \\ 23, 842 \\ 5, 104 \\ 7, 771 \end{array}$	$\begin{array}{c} 11,036\\351\\3,351\\3,389\\9,424\\9,424\end{array}$	$18,718 \\ 1,706 \\ 8,446 \\ 3,223 \\ 3,402 \\ 3,402 \\$	2,546 7,791 ,167	231, 824
$\begin{array}{c} 22,830\\ 1,331\\ 5,569\\ 2,453\\ 5,368\end{array}$	$\begin{array}{c} 197 \\ 6,695 \\ 7,810 \\ 438 \\ 114,662 \end{array}$	$\begin{array}{c} 1, 613\\ 2, 937\\ 38, 327\\ 3, 741\\ 3, 624\\ 3, 624\\ \end{array}$	$\begin{array}{c} 48,652\\542\\1,008\\4,027\\1,383\end{array}$	$\begin{array}{c} 2,973\\ 970\\ 13,413\\ 4,160\\ 7,673\end{array}$	$\substack{1, 134\\80, 845\\747}$	528, 446
$\begin{array}{c} 4,468\\101\\760\\176\\348\end{array}$	$1, 151 \\ 1, 747 \\ 1, 747 \\ 9, 749 \\ 9, 749 \\ 1$	$\begin{array}{c} 789\\ 346\\ 4,960\\ 91\\ 697\end{array}$	9,618 217 644 135 111	$\begin{array}{c} 59\\93\\2,193\\1,696\\1,696\end{array}$	18,727 333 318,727 31	79, 445
399 110 13 74	$1, 214 \\ 265 \\ 9, 521$	44 226 1,021 323	3, 097 494 85	19 3,808 25 404	1,712 21 21	30, 456
$\begin{array}{c} 32,668\\ 32,668\\ 19,037\\ 3,451\\ 7,873\end{array}$	$10,750 \\ 11,538 \\ 11,538 \\ 1,327 \\ 153,037 \\ 153,037 \\ 153,037 \\ 151,037 \\ 100,000 \\$	7,697 4,797 70,882 9,539 12,852	$75, 189 \\ 1, 651 \\ 5, 184 \\ 5, 248 \\ 11, 347 \\ 11, 347 \\ 11$	$\begin{array}{c} 23, 364\\ 2, 922\\ 9, 586\\ 12, 720\\ 12, 720\\ \end{array}$	$114, 917 \\1, 071$	916, 724
88, 696 16, 001 102, 939 22, 994 82, 047	$\begin{array}{c} 4,174\\12,656\\11,631\\18,727\\155,185\end{array}$	10, 782 33, 821 96, 384 48, 252 24, 712	81, 290 1, 719 6, 864 62, 348 24, 666	$113,107 \\13,856 \\13,856 \\29,758 \\17,777 \\18,560$	$\frac{12}{137}, \frac{485}{527}\\17, 530$	1, 981, 514
$\begin{array}{c} 3,021,469\\ 1,250,479\\ 2,781,644\\ 1,268,516\\ 3,167,279\\ \end{array}$	$\begin{array}{c} 356, 390\\ 163, 653\\ 163, 653\\ 179, 459\\ 1, 300, 335\\ 2, 144, 244\end{array}$	$\begin{smallmatrix} 644, 779\\ 1, 334, 552\\ 1, 926, 823\\ 2, 087, 049\\ 851, 108 \end{smallmatrix}$	$\begin{array}{c} 1, 540, 816\\ 30, 519\\ 30, 519\\ 435, 462\\ 2, 374, 763\\ 1, 161, 846\end{array}$	$\begin{array}{c} 6,249,443\\ 505,578\\ 435,480\\ 914,674\\ 572,644 \end{array}$	$\begin{array}{c} 587,462\\ 3,050,829\\ 873,729\end{array}$	66, 810, 836
Minnesota. Mississippi Missouri. Montana. Nebraska.	Nevada. New Hampshire New Jersey New Mexico New York.	North Carolina. North Dakota. Okianoma. Oregon.	Pennsylvania Rhode Island South Carolina. South Dakota. Tennesse.	Texas. Utah. Vermont. Virginia.	West Virginia. Wisconsin Wyoming.	Total

TABLE 19.—Number and value of CATTLE IMPORTED into the United States for all purposes.

	Ca	attle.	Year ended	Cattle.		
	June 30.	Number.	Value.			
1900. 1901. 1902. 1903. 1904. 1905. 1906. 1907. 1908. 1909. 1910.	$\begin{array}{c} 66, 175\\ 16, 056\\ 27, 855\\ 29, 019\\ 32, 402\\ 92, 356\\ 139, 184 \end{array}$	$\begin{array}{c} \$2,257,694\\ 1,931,433\\ 1,608,722\\ 1,161,548\\ 310,737\\ 458,572\\ 548,430\\ 565,122\\ 1,507,310\\ 1,999,422\\ 2,999,824 \end{array}$	1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921	868, 368 538, 167 439, 185		

[Commerce and Navigation Reports; (YB.).]

TABLE 20.—Number of cows in the United States which have produced 600 or more pounds of butterfat in a year prior to 1920, in the principal dairy breeds.

[Herdbooks of cattle clubs.]

Butterfat produced.	Holstein- Friesian.	Jersey.	Guern- sey.	Ayrshire.1	
Pounds. 1,000 or more. 900 to 1,000. 800 to 900. 700 to 800. 600 to 700.	$52 \\ 126 \\ 236$	$2 \\ 15 \\ 53 \\ 148 \\ 489$	2 8 27 98 297	0 2 12 25 77	

¹Complete to Apr. 15, 1921.

The table shows the number of cows, at their highest yield, with the butterfat produced for the year. That is, 52 Holstein, 15 Jersey, 8 Guernsey, and 2 Ayrshire cows of record have produced 900 to 1,000 pounds of butterfat per cow in a year.

TABLE 21.—Number of cattle registered by the Ayrshire Breeders' Association from 1910 to Dec. 31, 1921.

[Secretary of the Ayrshire Breeders' Association.]

Year.	Bulls and cows.	Year.	Bulls and cows.
1910	3, 233 4, 798 2, 884 3, 950 4, 912 4, 439	1916	$\begin{array}{c} 4,033\\ 4,944\\ 8,494\\ 6,148\\ 6,809\\ 5,874\end{array}$

 TABLE 22.—Number of cattle registered by the American Guernsey Cattle Club, Jan. 1, 1900, to Dec. 31, 1921.

[sourceast of the functional outernacy cattle crus.]								
Year.	Bulls.	Cows.	Total.	Year.	Bulls.	Cows.	Total.	
1900 1901 1902 1903 1904 1905 1906 1907	. 608 647 726 746 737 847 950 1,118	896 1,172 1,267 1,289 1,261 1,612 1,964 1,964	1, 504 1, 819 1, 993 2, 035 1, 998 2, 459 2, 914 3, 084	1911 1912 1913 1914 1915 1916 1917 1918	4, 348 4, 765 5, 030 6, 167 6, 108	4,001, 4,578 5,642 6,937 6,535 7,654 9,366 9,356	7.520 9,295 11,285 11,300 12,684 15,533 15,464	
1908 1909 1910	$1,291 \\ 1,841 \\ 2,420$	2, 191 3, 836 4, 194	$3,482 \\ 5,677 \\ 6,614$	1919 1920 1921	7,648 7,427 8,036	$11,781 \\ 11,956 \\ 13,971$	19, 429 19, 383 22, 00 7	

[Secretary of the American Guernsey Cattle Club.]

The total number of animals in the herdbook of the American Guernsey Cattle Club to Jan. 1, 1921, is: Bulls, 68,804; cows, 112,003; total, 180,807.

TABLE 23.—Number of cattle registered by the Holstein-Friesian Association of America for the years 1900 to 1921, inclusive.

[Secretary, Holstein-Friesian Association.]

37	1
Year ended Apr. 30-Bulls.Cows.Total.Year ended Apr. 30-Bulls.C	Cows. Total.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

TABLE 24.—Number of cattle registered by the American Jersey Cattle Club for the years 1900 to 1921.

[Secretary, American Jersey Cattle Club.]

Year.	Bulls.	Cows.	Total.	Year.	Bulls.	Cows.	Total.
	$\begin{array}{c} 2,798\\ 2,567\\ 2,471\\ 2,370\\ 2,373\\ 2,640\\ 3,019\\ 3,752\\ 4,148\\ 5,249\\ 6,333\end{array}$	8,750 8,045 7,580 7,240 7,464 7,735 8,652 9,383 10,135 12,513 14,509	$11,548 \\ 10,612 \\ 10,051 \\ 9,610 \\ 9,837 \\ 10,375 \\ 11,671 \\ 13,135 \\ 14,283 \\ 17,762 \\ 20,842 \\ 0,842 \\ 11,548 \\ 11,5$	1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921	$\begin{array}{c} 7,562\\ 9,147\\ 10,079\\ 9,475\\ 10,242\\ 14,446\\ 8,904\\ 10,906\\ 11,669 \end{array}$	$\begin{array}{c} 16,282\\ 16,591\\ 19,481\\ 22,861\\ 22,957\\ 24,997\\ 33,960\\ 25,398\\ 30,424\\ 32,162\\ 31,123\\ \end{array}$	$\begin{array}{c} 23,511\\ 24,153\\ 28,628\\ 32,940\\ 32,432\\ 35,239\\ 48,406\\ 34,302\\ 41,330\\ 43,831\\ 42,336\end{array}$

TABLE 25.—Number of COW-TESTING and BULL ASSOCIATIONS in the United States.

Year.	Cow-test- ing asso- ciations.	Bull asso- ciations.	Year.	Cow-test- ing asso- ciations.	Bull asso- ciations.
1906	$ \begin{array}{r} 1 \\ 4 \\ 6 \\ 25 \\ 40 \\ 61 \\ 82 \\ 100 \\ \end{array} $	None. None. 3 8 9 11 11 12	1914 1915 1916 1917 1918 1919 1920 1921	$163 \\ 211 \\ 346 \\ 459 \\ 353 \\ 385 \\ 4^{6}8 \\ 452$	$ \begin{array}{r} 14\\ 15\\ 24\\ 36\\ 44\\ 78\\ 123\\ 158 \end{array} $

[Dairy Division, Bureau of Animal Industry.]

Number of bulls per bull association, average in each of the three years 1918, 1919, 1920, was 5.

Number of cows per bull association, average for the 3-year period, 233. Number of cows per block in bull associations, average for the 3-year period, 48.

Number of members per bull association, average for the 3-year period, 38.

Number of herds per cow-testing association, average for the 3-year period, 26.2.

¹ Number of cows per cow-testing association, average for the 3-year period, 448.

TABLE 26.—Average of 120 sets of yearly records of 96 COW-TESTING ASSOCIATIONS in the United States for the years 1910 to 1920, inclusive.

[Dairy Division, Bureau of Animal Industry.]

	Cows on test 4 months and not more than 12.		Cows on test 4 months and not more than 12.
Number of cows Number of cow-years ¹ Pounds of milk Butterfat (per cent) Pounds of fat Price of butterfat Value of product	$\begin{array}{c} 41,990\\ 37,362\\ 5,989\\ 4.12\\ 247\\ \$0.46\\ 112.39 \end{array}$	Cost of roughage Cost of grain Total feed cost Income over cost of feed Returns for \$1 ex- pended for feed	\$32.03 21.03 53.06 59.33 2.11

¹ A cow-year may be the record of 1 cow on test 12 months or it may be made up of the records of 2 or more cows, the sum of whose testing periods equals 12 months.

The average yield of American farm cows from year to year is estimated at nearly 4,000 pounds of milk, or 160 pounds of butterfat per year.

TABLE 27.-Estimated number and capacity of SILOS in important dairy States for the year 1918. [Bureau of Markets and Crop Estimates.]

State.	Number of silos.	Average capacity.	Total capacity.
New York	$\begin{array}{c} 55,000\\ 24,000\\ 25,000\\ 27,000\\ 30,000\\ 33,000\\ 55,000\\ 15,000\\ 16,000\\ 13,000\\ 13,000\\ 10,000\\ 35,000\\ 55,000\\ \end{array}$	Tons. 75 65 67 70 70 79 70 70 79 70 70 79 70 95 105 95 105 90 90 106 80 90 67 77	<i>Tons.</i> 4, 125, 000 1, 500, 000 2, 370, 000 2, 310, 000 4, 785, 000 1, 625, 000 1, 680, 000 1, 170, 000 2, 345, 000 4, 235, 000
United States	404,000	78	31, 536, 000

TABLE 28.—Total MILK PRODUCTION in the United States.

[Bureau of the Census.]

Year.	Milk production.	Remarks.
1869 1879 1889 1899 1909 1919	Gallons. 235, 500, 599 530, 129, 755 5, 209, 125, 567 7, 728, 583, 349 7, 466, 406, 384 7, 805, 143, 792	Sold from farms. Do. Including milk from town cows. Estimate by Bureau of the Census. Do.

TABLE 29.—Estimates of PRODUCTION and USES of MILK in the United States.

[Dairy Division, Bureau of Animal Industry, and Bureau of Markets and Crop Estimates.]

[Million pounds-000,000 omitted.]

	1917		1918		19	19	1920	
Product.	Lbs.	Per cent.	Lbs.	Per cent.	Lbs.	Per cent.	Lbs.	Per cent.
Total production	8 4,6 12	100	87,906	100	90,058	100	89,657	100
Creamery butter} Farm butter} Cheese Condensed milk Ice cream. Other products Household use Fed to calves Waste or loss	34,664 4,200 2,438 3,150 36,500 3,660	5 2.9 3.7 43.1	3,300 50 38,900	$ \begin{array}{r} 16.9\\ 4.5\\ 4.5\\ 3.8\\ .1\\ 44.3\\ 4.3 \end{array} $	4, 813 3, 450 216 38, 619 3, 500	$ \begin{array}{r} 16.0 \\ 4.7 \\ 5.3 \\ 3.8 \\ .2 \\ 42.9 \\ 3.9 \\ \end{array} $	3,945 3,575 222 39,090 4,202	$ \begin{array}{r} 15.8 \\ 4.0 \\ 4.4 \\ 4.0 \\ 0.2 \\ 43.6 \\ 4.7 \\ \end{array} $

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TABLE 30.-Number and breeds of ACCREDITED and ONCE-TESTED CATTLE, showing cattle free from tuberculosis, as indicated by tuberculin test, up to Tune 30, 1920.

Breed.	Once-test out rea		In accredited herds.		
	Purebred.	Grade.	Purebred.	Grade.	
Aberdeen Angus Ayrshire Brown Swiss Devon. Dutch Belted Galloway	2,315 686 82	2,095 2,137 350 25 271 143 15,538	2,072 1,291 387 34 18 8 8	594 274 63 6 8 40	
Guernsey. Hereford. Polled Hereford. Holstein-Friesian. Jersey. Red Polled. Shorthorn. Milking Shorthorn.	$\begin{array}{r} 13,014\\ 1,120\\ 26,916\\ 18,045\\ 1,675\\ 20,249 \end{array}$		$\begin{array}{r} 6,651\\ 5,117\\ 777\\ 11,141\\ 10,369\\ 1,189\\ 7,606\\ 11\end{array}$	$\begin{array}{c} 6,003\\ 1,816\\ 122\\ 12,599\\ 9,525\\ 155\\ 3,237\\ 15\end{array}$	
Polled Shorthorn	368 97,138	234 160, 439	320 47,021	58 34, 515	

[U. S. Department of Agriculture; Circular 142 (YB.).]

A plan was adopted in 1917 by the Federal and State authorities to eradicate tuberculosis. This plan provides for "accredited herds." An accredited herd is one which has been tuberculin-tested by the subcutaneous method, or any other test approved by the Bureau of Animal Industry, under the supervision of the Bureau of Animal In-dustry, or of a regularly employed veterinary inspector of a State in which cooperative tuberculosis-eradication work is conducted by the United States Department of Agriculture and the State. Further, it shall be a herd in which no animal affected with tuberculosis has been found upon two annual or three semiannual tuberculin tests, as described above, and by physical examination. On June 30, 1921, there were in the United States 8,201 accredited herds

and 49,814 once-tested free herds.

TABLE 31.—PRICE	of	MILK	in	Chicago,	net	to	farmer.
		[Milk N	ews.]			

Year.	Price per 100 pounds.	Year.	· Price per 100 pounds.	Year.	Price per 100 pounds.
1897 1898 1899 1900 1901 1902 1903 1904 1904 1904 1904	1.11 1.13 1.25 1.35 1.39 1.40 1.48 1.43	1905 1906 1907 1908 1909 1910 1911 1912	\$1.43 1.38 1.62 1.73 1.72 1.83 1.90 1.89	1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920. 1920.	\$1.99 2.00 1.98 2.03 2.66 3.22 3.65 3.49

Year.	New York City.	Phila- delphia.	Boston.
1000	Gallons.		Gallons.
1893. 1895.			
1900	92,202,650 115,022,450		
1905	158,994,000	30,100,242	
1906	175,021,150	32, 412, 845	28, 558, 491
1907	179, 966, 900	33, 982, 797	27, 470, 547
1908	178,897,450	32, 590, 749	25,957,819
1909	187,091,700	36, 198, 715	27,020,734
19 10. 19 11.	200,049,100 212,170,850	37,657,204	25, 151, 590
1912	217,634,900	40,625,144 40,841,772	22, 523, 193 26,004,808
1913	226,675,950	43, 354, 701	26, 826, 712
1914	229, 785, 750	43, 433, 961	25,909,556
1915	240, 144, 450	44,607,224	27, 376, 987
1916	243,929,500	47,846,966	29,629,053
1917	246, 597 650	46 714,093	35,180,444
1918. 1919.	260, 547, 370 279, 686, 190	48,338,655 53,953,142	36,578,654
1919	307, 431, 106	67,983,114	39,177,071 41,595,081
1921.	326, 316, 250	74, 266, 288	42, 348, 423
	,,	,,,	,,,

TABLE 32.—Total annual RECEIPTS of MARKET MILK in New York City, Philadelphia, and Boston. [Milk Reporter.]

The receipts at New York were in the form of whole milk, cream, and condensed milk.

In Boston the receipts were by railroad. Means of receipt in the other cities not stated. The totals for Boston from 1906 to 1916, inclusive, are from Massachusetts Public Document No. 60 (1917), and from 1917 to 1919, from E. M. Hartwell, statistician, Boston.

TABLE 33.—Prevailing New York price for Grade B milk, net to farmer.

[Milk Reporter.]

Year.	Average price per quart.	Year.	Average price per quart.	Year.	Average price per quart.
1875 1. 1876 . 1877 . 1877 . 1879 . 1889 . 1881 . 1882 . 1883 . 1883 . 1884 . 1885 . 1886 . 1885 . 1886 . 1887 . 1888 . 1889 . 1889 . 1890 . 1897 . 1997	$\begin{array}{c} 3.37\\ 3.27\\ 2.60\\ 2.33\\ 2.88\end{array}$	1891	Cents. 2.66 2.68 2.79 2.63 2.52 2.34 2.35 2.38 2.53 2.74 2.62 2.88 2.88 2.88 2.88 2.88 2.88 2.88	1907	$\begin{array}{c} \textit{Cents.} \\ 3,35 \\ 3,29 \\ 3,38 \\ 3,36 \\ 3,68 \\ 3,68 \\ 3,50 \\ 3,50 \\ 3,50 \\ 3,50 \\ 3,50 \\ 3,50 \\ 3,56 \\ 8,7.00 \\ 7,58 \\ 7,57 \\ 6,42 \end{array}$

¹ Price in gold during period of inflated currency: 1875, 3.11 cents; 1876, 3.02 cents; 1877, 3.12 cents; 1878, 2.58 cents.

TABLE 34.—Unit requirements for producing 100 pounds of milk in different sections of the United States. [Dairy Division, Bureau of Animal Industry.]

[Daily Division, Dureau of Annual Industry.]							
Item.	Indi	iana.1	Verr	Vermont. ²		North Carolina.8	
Average yearly milk production per cowpounds Per cent butterfat	6,937		5,	5, 252 3. 9		, 915	
	Winter.	Sum- mer.	Winter.	Sum- mer.	Winter.	Sum- mer.	
Grainpounds Dry roughage.do Succulent roughage	38.6 66.8	20.0 27.4	33.1 129.9	8.7 18.7	57.8 78.5	48.4 36.9	
Hauling and grind-	147.6	60.1	191.3	27.8	181.5	87.0	
ing concentrates Beddingpounds Pastureacres.	\$0.03 20.3	\$0.14	\$0.02 11.2	\$0.005 .10	\$0.008 .012	\$0.205	
Human labor hours Horse labordo Other costs	2.5 .3 \$0.385	2.2 .2 \$0.393	2.7 .6 \$0.555	2.0 .4 \$0.425	3.6 ⁵ 1.8 \$0.537	3.2 ⁵ 1.8 \$0.495	
Credit for calves part of calf Credit for manure	. 012	. 013	. 025	. 009	\$0. 548	\$0.430	
	332	54	382	56			
pounds	332			1	1,		
Item.		ngton.4		siana.6	Nebr	aska.7	
Item. Average yearly milk				siana.6	Nebr	aska.7	
Item.	Washi		Louis 3,	106 4.4		823 3. 65	
Item. Average yearly milk production per cowpounds	Washi	ngton.4	Louis 3,	106		823	
Item. Average yearly milk production per cowpounds Per cent butterfat Grainpounds Dry roughage.do	Washin 7,	ngton.4 \$33 3.7 Sum-	Louis 3,	106 4.4 Sum-	5,	823 3. 65 Sum-	
Item. Average yearly milk production per cowpounds Per cent butterfat Grainpounds Dry roughage.do Succulent roughage pounds	Washi 7, Winter. 29.4	ngton.4 \$33 3.7 Sum- mer. 5.2	Louis 3, Winter. 72.4	106 4.4 Sum- mer. 52.5	5, Winter. 41.2	823 3.65 Sum- mer. 11.0 51.2 29.3	
Item. Average yearly milk production per cowpounds Per cent butterfat Grainpounds Dry roughage.do Succulent roughage pounds Hauling and grind- ing concentrates	Washin 7, Winter. 29.4 92.9	s33 3.7 Sum- mer. 5.2 7.5 40.4 \$0.003 .1	Louis 3, Winter. 72.4 38.3 78.4 \$0.095 .3	106 4.4 Sum- mer. 52.5 1.9 8.1 \$0.050	5, Winter. 41. 2 95. 3 93. 6 \$0. 016 11. 1	823 3.65 Sum- mer. 11.0 51,2 29.3 \$0.004 .5	
Item. Average yearly milk production per cowpounds Per cent butterfat Dry roughage.do Succulent roughage pounds Hauling and grind- ing concentrates Beddingpounds Pastureacres Human labor	Washin 7, Winter. 29, 4 92, 9 143, 3 \$0, 022 9, 0	s33 3.7 Sum- mer. 5.2 7.5 40.4 \$0.003 .1 .025	Louis 3, Winter. 72, 4 38, 3 78, 4 \$0, 095 \$0, 155	106 4.4 Sum- mer. 52.5 1.9 8.1 \$0.050 \$0.197	5, Winter. 41.2 95.3 93.6 \$0.016 11.1 \$0.108	823 3.65 Sum- mer. 11.0 51,2 29.3 \$0.004 .5 \$0.653	
Item. Average yearly milk production per cowpounds Per cent butterfat Grainpounds Dry roughage.do Succulent roughagepounds Hauling and grind- ing concentrates Beddingpounds Pastureacres Human laborhours Horse labordo	Washin 7, Winter. 29, 4 92, 9 143, 3 \$0, 022 9, 0 1, 9 .01	s33 s.7 Sum- mer. 5.2 7.5 40.4 \$0.003 .1 .025 1.3 .015	Louis 3, Winter. 72.4 38.3 78.4 \$0.095 .3 \$0.155 5.8 .9	106 4.4 Sum- mer. 52.5 1.9 8.1 \$0.050 \$0.197 5.0 .7	5, Winter. 41. 2 95. 3 93. 6 \$0. 016 11. 1 \$0. 108 2. 0 . 06	823 3.65 Sum- mer. 11.0 51,2 29.3 \$0.004 .5 \$0.653 1.9 .08	
Item. Average yearly milk production per cowpounds Per cent butterfat Grainpounds Dry roughage.do Succulent roughage Hauling and grind- ing concentrates Beddingpounds Pastureacres. Human labor Other costs Credit for calves	Washin 7, 29,4 92,9 143,3 \$0.022 9.0 1,9 \$0.576	s33 3.7 Sum- mer. 5.2 7.5 40.4 \$0.003 .015 \$0.406	Louis 3, Winter. 72.4 38.3 78.4 \$0.05 3 \$0.155 5.8 .9 \$1.220	106 4.4 Sum- mer. 52.5 1.9 8.1 \$0.050 \$0.197 5.0 .7 \$0.803	5, Winter. 41.2 95.3 93.6 \$0.016 11.1 \$0.108 2.0 .06 \$0.869	823 3.65 Sum- mer. 11.0 51,2 29.3 \$0.004 53 0.653 1.9 .08 \$0.889	
Item. Average yearly milk production per cowpounds Per cent butterfat Grainpounds Dry roughage.do Succulent roughagepounds Hauling and grind- ing concentrates Beddingpounds Beddingpounds Human laborhours Horse labordo Other costs	Washin 7, Winter. 29, 4 92, 9 143, 3 \$0, 022 9, 0 1, 9 .01	s33 s.7 Sum- mer. 5.2 7.5 40.4 \$0.003 .1 .025 1.3 .015	Louis 3, Winter. 72.4 38.3 78.4 \$0.095 .3 \$0.155 5.8 .9	106 4.4 Sum- mer. 52.5 1.9 8.1 \$0.050 \$0.197 5.0 .7	5, Winter. 41. 2 95. 3 93. 6 \$0. 016 11. 1 \$0. 108 2. 0 . 06	823 3.65 Sum- mer. 11.0 51,2 29.3 \$0.004 .5 \$0.653 1.9 .08	

⁶ Farmers retailed own milk.
 ⁶ U. S. Dept. of Agric. Bul. 955.
 ⁷ U. S. Dept. of Agric. Bul. 972.

¹ U. S. Dept. of Agric. Bul. 858.
 ² U. S. Dept. of Agric. Bul. 923.
 ³ U. S. Dept. of Agric. Bul. 266.
 ⁴ U. S. Dept. of Agric. Bul. 919.

TABLE 35.—Production of DAIRY PRODUCTS in the United States for the year 1919, by months.

-						
	Creamery Whey		America	cheese.	Swiss cheese	
Month.	butter.	butter.	Whole milk.	Part skim.	Full skim.	(includ- ing block).
1919. Jan Feb Apr June June July Sept Oct Nov Dec	Pounds. 52, 198, 95 44, 342, 56 54, 822, 39 67, 487, 31 103, 941, 02 119, 357, 49 104, 751, 26 84, 840, 31 69, 102, 57 58, 722, 55 45, 040, 65 46, 662, 02	8 225, 545 3 276, 892 7 383, 485 1 596, 694 3 717, 123 3 694, 382 0 657, 863 8 597, 292 7 424, 017 6 430, 863	$\begin{array}{c} 11,854,738\\ 19,008,970\\ 21,641,722\\ 34,849,006\\ 44,599,120\\ 35,465,017\\ 30,940,233\\ 26,256,544\\ 23,114,457\\ 13,106,756\end{array}$	$ \begin{bmatrix} 238, 703\\ 495, 475\\ 734, 953\\ 900, 810\\ 942, 233\\ 77, 732, 809\\ 2528, 176\\ 92, 528, 176\\ 92, 76, 674\\ 71, 248, 049\\ 3230, 276 \end{bmatrix} $	378, 272	Pounds. 131,949 172,335 269,235 597,794 2,850,662 3,910,881 3,440,549 3,227,488 2,629,450 1,860,084 848,190 448,689
Total	851, 269, 140	5, 597, 308	281, 836, 015	5 6, 189, 192	6, 985, 356	
Month.	Brick and Münster cheese.	Lim- burger cheese.	Cottage, pot, and baker's cheese.	Cream and Neuf- châtel cheese.	Italian varieties of cheese.	All other varieties of cheese.
Jan	3, 146, 302 4, 039, 841 4, 334, 932 2, 872, 007 2, 552, 768 2, 462, 945 3, 794, 110	Pounds. 177, 294 210, 818 237, 678 502, 245 1, 220, 499 1, 301, 585 886, 299 874, 133 748, 086 703, 939 473, 155 289, 810	Pounds. 2,109,591 2,443,069 2,707,964 3,701,192 3,214,328 2,925,902 2,344,858 2,201,372 1,895,083 2,180,766 1,855,898 2,205,306	Pounds. 450, 177 413, 916 474, 339 430, 193 440, 168 445, 583 506, 491 402, 011 376, 972 423, 218 507, 611 629, 960	Pounds. 317, 446 298, 603 335, 177 358, 339 457, 398 451, 674 334, 639 312, 054 279, 230 329, 434 256, 158 257, 119	$\begin{array}{c} Pounds.\\ 513,326\\ 546,372\\ 769,412\\ 893,582\\ 892,360\\ 784,094\\ 661,120\\ 627,851\\ 703,497\\ 1,264,474\\ 985,499\\ 1,049,910\\ \end{array}$
Total	37,521,004	7, 625, 541	29,785,329	5, 500, 639	3, 987, 361	9, 661, 497

[Bureau of Markets and Crop Estimates.]

Note.-This table is not quite complete, as a few reports were received after it was made. For final total butter figures see Table 40; for total cheese made see Table 51; and for condensed and evaporated milk see Table 61.

The figures in Tables 35 and 36 are taken from the Market Reporter (published by the Bureau of Markets and Crop Estimates), Apr. 3, 1920. They include only such factories as reported for both 1918 and 1919, and represent about 93 per cent of the total number of factories. See Table 39 for total creamery butter; and Table 40 for total creamery

and whey butter.

TABLE 36.—Production of CONDENSED and EVAPO-RATED MILK in the United States for the year 1919, by months.

Month.	Sweet- encd con- densed skimmed milk.	Unsweet- ened evapo- rated skimmed milk.	Sweet- ened con- densed whole milk,	Unsweet- ened , evaporated whole milk.	Evapo- rated part or full skimmed milk. ¹	Steril- ized whole milk canned.
1919.	Pounds.	Pounds.	Pounds.	Pounds.	Pounds.	Pounds.
Jan	3,832,759	4,875,107	25, 895, 736	79, 439, 812	3, 563, 179	1,624,930
Feb	4, 593, 977	3, 562, 550			2,704,232	451,308
Mar	6,860,862				3,876,562	515,862
Apr	8, 196, 677	5,479,228			5,026,025	
May.	11,028,637	6,936,653	70,403,079	132, 668, 917	5,983,285	568,767
June.	7,751,023	9,138,584	64,019,406	153,672,555	6, 795, 121	Not
-					· · ·] given.
July .	4,844,922				5,469,322	
Aug	4,109,201	7,170,623		105,400,617	5,763,975	
Sept.	3,963,454			92,619,308	4,973,701	90,443
Oct	3,878,855				7, 114, 632	
Nov .	4,285,022				6,523,220	3,859
Dec	5,677,937	3,967,673	37, 154, 100	81,914,071	7, 217, 091	5,112
Total.	69 , 023, 32 6	69,068,4 58	605, 160, 899	1, 234, 202, 122	65, 010, 345	4, 414, 818

[Bureau of Markets and Crop Estimates.]

¹ Modified with foreign fats.

The figures in Tables 35 and 36 are taken from the Market Reporter (published by the Bureau of Markets and Crop Estimates), Apr. 3, 1920. They include only such factories as reported for both 1918 and 1919, and represent about 93 per cent of the total number of factories. For total condensed and evaporated milk, see Table 61.

TABLE 37.—PRODUCTION and EXPORTATION of RENOVATED BUTTER, by years.

[Bureau of Internal Revenue and Dairy Division, Bureau of Animal Industry.]

Year. ended June 30—	- (Produc- tion.	Exports.	Year ended June 30.	Fac- to- ries. ¹	Produc- tion.	Exports.
1902 1903 1904 1905 1906 1907 1908 1909 1910 1911	55 81 77 78 64 51 49 49 42 42	60, 029, 421 53, 549, 900 62, 965, 613	$\begin{array}{c} 1,312,000\\ 3,118,018\\ 3,864,146\\ 11,005,537\\ 5,538,410\\ 1,271,610\\ 1,115,288\\ 41,850 \end{array}$	1912 1913 1914 1915 1916 1917 1918 1919 1920 1921	39 39 34 29 28 22 19 15 11	38, 354, 762 32, 470, 030 39, 056, 180 34, 514, 527 27, 507, 982 19, 270, 933 17, 358, 718	$\begin{array}{c} 75,037\\674,780\\1,918,015\\133,300\\635,038\\17,340\\41,200\\8,110\end{array}$

¹ Total number of factories at end of fiscal year.

Production is taken from reports of the Bureau of Internal Revenue; and exports are taken from the reports of inspectors of the Dairy Division, Bureau of Animal Industry, Department of Agriculture.

TABLE 38.—DAIRY PRODUCTS made during 1919 in FACTORIES in the United States, by States.

[Bureau	of M	larkets	and	Crop	Estimates.]

		·	
, State.	Creamery butter. ¹	Factory cheese. ²	Condensed and evapo- rated milk. ¹
	Pounds.	Pounds.	Pounds.
Alabama	696,215	1 000000.	
Arigono	1,000,118	463, 717	1, 129, 304
Arizona	1,000,118	403,717	16, 363, 677
Arkansas.	363, 384 61, 795, 295		
California	61, 795, 295	8,940,302	78, 636, 340
Colorado	13, 144, 464	507, 696	16,903,909
Connecticut	929, 551	111	26, 559
Delaware	253, 286	200, 237	
District of Columbia	5, 375 16, 755		
Florida	16,755		76, 138
Georgia	315, 802		
Idaho	4, 514, 263	2,582,428 6,294,871	11,093,091
Filinois	44, 621, 358	6, 294, 871	188, 950, 296
Indiana	44, 658, 534	185, 230	23, 662, 666
Iowa	87, 914, 633	954, 425	6,653,397
Kansas	35, 642, 291	25, 498	19, 834, 406
Kentucky	5, 321, 193	20, 100	10,001,100
Louisiana	46, 409	1,100	*****
Maine	1, 140, 850	2,200	6,894,304
Maryland	315, 305	237,926	9, 111, 194
Massachusetts	2, 849, 270	106,675	2, 215, 243
Michigan	45, 206, 770	7, 690, 485	198, 651, 629
Minnesota	130, 785, 598	9, 766, 750	2, 360, 121
Mississippi	2, 476, 787	5,100,100	2, 300, 121
Missouri	38, 411, 403	304, 983	39,831
Montana	5, 389, 032	318, 398	00,001
Nebraska	60, 467, 056	39, 343	3,071,270
Nevada	1, 725, 494	00,010	0,011,210
New Hampshire.	397, 198	258, 843	76,332
New Jersey.	178, 796	856, 195	10, 571, 144
New Mexico.	5,673	000,200	10,011,111
New York	13, 715, 704	68,855,452	443, 540, 879
North Carolina	829, 286	228,765	
North Dakota	14, 696, 566	,	
Ohio.	60, 573, 159	4, 546, 836	123, 442, 732
Oklahoma	10, 481, 270	7 550	120, 112, 102
Oregon	14, 431, 827	7, 550 8, 465, 306	33, 947, 234
Pennsylvania	12, 445, 578	6, 307, 821	181, 897, 826
Rhode Island	65, 392	4,294	911
South Carolina	26,580	348	211
South Dakota	17, 478, 570	56,348	
Tennessee.	3, 735, 157		960
Texas.	8,288,644	51,033 17,603	11,644
Utah	3, 796, 394	914,605	20, 479, 439
Vermont.	10, 676, 538	3, 581, 569	38, 997, 068
Virginia	1, 597, 340	59,991	5, 221, 714
Washington	18, 486, 591	1, 257, 254	129, 482, 526
West Virginia.	328, 160	55,750	400, 122
Wisconsin.	85, 054, 334	263, 481, 352	457, 214, 442
Wyoming.	1,139,556	1,612,356	101, 213, 992
Total	868, 124, 806	399, 239, 446	2,030,957,648
			the second se

¹ See Tables 34, 35 and 40 for whey butter. ² Cottage, pot, and baker's cheese are not included under cheese. ³ Sterilized canned milk, condensed buttermilk, and milk modified with foreign fats are not included in this table. Froduction of sterilized canned milk for 1919 was 4,420,713 pounds.

NOTE.-A few reports were made after this table was made; see Tables 40, 51, and 61 for final totals.

TABLE 39.—DAIRY PRODUCTS made during 1920 in FACTORIES in the United States, by States.

Chata	Creamery	Factory1	Condensed
State.	butter.	cheese.	and evapo- rated milk. ²
			Taved Inn
	Pounds.	Pounds.	Pounds.
Alabama	398,000	rounus.	223,000
Arkansas	345,000		
Arizona	828,000	227,000 8,518,000	3, 452, 000
California	61,870,000	8,518,000 531,000	83, 464, 000
Colorado Connecticut	12,979,000 877,000	551,000	15, 708, 000
Delaware.	350,000	147,000	
District of Columbia	503, 000		
Florida			
Georgia Idaho	7,000 4,660,000	1,727,000	15, 412, 000
Illinois	41,051,000	3, 965, 000	120, 987, 000
Indiana	39, 223, 000	187,000	24,007,000
Iowa.	84, 290, 000	636,000	5,637,000
Kansas	32,899,000 7,875,000	19,000	19,004,000 240,000
Kentucky Louisiana	55,000		240,000
Maine.	727,000		1,972,000
Maryland	440,000	107,000 77,000	7,022,000
Massachusetts	3, 198, 000	6 567 000	2,383,000
Michigan Minnesota	45,404,000 120,297,000	6, 567, 000 5, 841, 000	160, 236, 000 1, 884, 000
Mississippi	2, 626, 000	0,011,000	1,001,000
Missouri	35, 228, 000	380,000	
Montana.	5,168,000	295,000	100.000
Nebraska. Nevada	56,661,000 2,018,000	3,000	182,000
New Hampshire	300,000	700,000	
New Jersey	143,000	693,000	4, 819,000
New Mexico	6,000		
New York. North Carolina	16,949,000 832,000	53,216,000 109,000	288, 390, 000
North Dakota	13, 419, 000	105,000	
Ohio	65, 594, 000	2,957,000	113, 231, 000
Oklahoma	3, 596, 000		
Oregon	14,288,000 11,422,000	8, 482, 000 6, 245, 000	31,763,000
Pennsylvania. Rhode Island	58,000	0,240,000	140,002,000
South Carolina	16,000		
South Dakota	14,071,000	9,000	
Tennessee	5,903,000	26,000	246,000
Texas. Utah	9, 125, 000 3, 567, 000	3,000 855,000	16,943,000
Vermont	3,567,000 13,253,000	1,850,000	26,010,000
Virginia	2,210,000	35,000	5,651,000
Washington.	23, 751, 000	1,463,000	83, 690, 000
West Virginia Wisconsin	367,000 97,355,000	29,000 255,286,000	889,000 410,195,000
Wyoming.	875,000	1, 203, 000	110, 100, 000
			-
Total	863, 577, 000	362, 431, 000	1, 583, 638, 000
	1	1	1

[Bureau of Markets and Crop Estimates.]

¹ Cheese does not include either cottage, baker's, or pot cheese. ² Condensed and evaporated milk does not include condensed butter-milk or milk modified with foreign fats; but does include sterilized canned milk.

TABLE 40.—Total PRODUCTION of farm and factory BUTTER in the United States.

[Census Bureau and Bureau of Markets and Crop Estimates.] [c=census. m=markets.]

Year.	Creamery and whey butter.	Farm-made butter.	, Total butter.
1849 c		Pounds, 313, 345, 306 459, 681, 372 514, 002, 683 777, 250, 287 1, 024, 223, 468 1, 071, 745, 127 994, 650, 610	1, 646, 171, 874

¹ Whey butter included in Bureau of Markets reports for 1918, 1919, and 1920. Production of whey butter in 1918, 5,510,213; 1919, 5,597,308; 1920, 3,085,978.

TABLE 41.—Total number of CREAMERIES in the . United States.

[Dairy Division, Bureau of Animal Industry.]

Year.	Number of cream- eries.	Year.	Number of cream- eries.	Year.	Number of cream- eries.
1908 1909 1910 1911 1912	5,4315,1235,0304,8384,751	1913 1914 1915 1916 1917	4,859 4,637 4,518 5,821 14,000	1918 1919 1920	1 4,000 1 4,000 1 3,500

¹ The Dairy Division record of the number of creameries was discontinued with the year 1916. The later figures are estimated by the Bureau of Markets.

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[Bureau of Markets and Crop Estimates.]							
Month.	Whole- milk powder.	Skim- milk powder.	Cream powder.	Malted milk.			
1919. January. February. March. April May. June. July. July. August. September. October. Docember. December. Total.	Pounds. 277, 426 801, 865 739, 185 612, 272 1,093,084 832,669 91,036,194 977,772 868,465 294,598 522,974 604,281 8,660,785	$\begin{array}{c} Pounds.\\ 1,606,854\\ 1,807,397\\ 2,809,490\\ 3,711,441\\ 4,506,141\\ 4,102,868\\ 3,343,393\\ 3,199,303\\ 2,372,636\\ 2,320,808\\ 1,472,701\\ 1,823,099\\ \hline 33,076,131\\ \end{array}$	Pounds. 49,685 43,444 69,338 104,876 53,424 8,358 104,876 38,832 19,301 230 33,024 592,070	$\begin{array}{c} \hline Pounds. \\ 1, 649, 002 \\ 1, 599, 413 \\ 1, 835, 124 \\ 1, 676, 726 \\ 1, 423, 864 \\ 1, 306, 489 \\ 1, 178, 746 \\ 1, 020, 746 \\ 1, 020, 746 \\ 1, 020, 689 \\ 1, 504, 594 \\ 1, 506, 889 \\ 1, 560, 916 \\ \hline \hline 17, 495, 887 \\ \hline \end{array}$			
Month.		Buttermilk powder.	Dried casein (lactarene). ¹	Crude milk sugar (lactose).			

Pounds.

237, 685 298, 481 399, 891 1,007, 857

786, 146 601, 178 438, 554 341, 810 349, 694

242, 819 273, 978

5,278,827

300, 734

Pounds.

718,024 1,117,961 1,972,017 1,973,198

1,905,882

1, 580, 416 1, 104, 200 860, 643

822, 604 638, 207 711, 823

13,924,836

519,861

Pounds.

194, 897

204, 625 440, 318 592, 848 719, 719

799, 639

752, 071 656, 987 508, 539 502, 899 442, 342 406, 458

6,221,342

1919.

January.....

February..... March..... April..... May.....

June.....

July..... August..... September.....

October.....

November..... December..... Total.....

TABLE 42.-Production of POWDERED MILK PROD-UCTS in the United States for the year 1919, by months.

¹ Dried casein includes both skim-milk and buttermilk casein, the skim-milk casein amounting to 13,202,685 pounds and the buttermilk casein to 722,151 pounds.

These figures represent the production of practically all the factories.

Bureau of Markets and Crop Estimates 1

TABLE 43.—Quantities of MILK, BUTTER, and CHEESE produced on farms during 1919 and number of DAIRY COWS and YIELD of milk per.cow.

State.	Milk pro- duced on farms.	Farm butter.	Farm cheese.	Dairy cows.	Yield per cow.
Alabama Arizona Arizona Arizona	$\begin{array}{c} \text{duced on} \\ \text{farms.} \\ \hline \\ $	butter. Pounds. 583, 446 553, 446 55, 577, 759 5, 775, 602 1, 926, 127 894, 883 6, 020 1, 162, 383 30, 227, 153 30, 227, 153 30, 227, 153 30, 227, 153 30, 227, 153 4, 540, 364 25, 903, 897 18, 334, 239 34, 980, 415 4, 252, 318 10, 855, 560 6, 162, 501 20, 025, 076 20, 205, 076 20, 758, 736 5, 961, 336 13, 761, 085 5, 960, 789 1, 404, 138 1, 004, 789 1, 404, 138	$\begin{array}{c} \text{cheese.} \\ \hline \\ \hline \\ Pounds. \\ 5,210 \\ 90,119 \\ 8,603 \\ 2,345,672 \\ 2,345,672 \\ 3,157,186 \\ 90,500 \\ 3,170 \\ \hline \\ 3,156 \\ 1,365 \\ 1,365 \\ 1,365 \\ 1,365 \\ 3,156 \\ 1,365 \\ 3,170 \\ 1,365 \\ 3,156 \\ 1,365 $	2008. 394, 112 31, 619 415, 507 502, 415 192, 234 412, 622 33, 024 71, 641 388, 448 115, 336 957, 313 608, 211 897, 668 574, 257 441, 346 176, 936 175, 425 161, 972 147, 301 802, 095 1, 229, 179 427, 406 1, 75, 425 161, 972 147, 331 802, 095 1, 229, 179 427, 406 1, 3349 95, 997 130, 497 37, 805 1, 481, 918 1, 481, 918	$\begin{array}{c} \text{per}\\ \text{cow.}\\ \hline\\ Lbs.\\ 1,944\\ 3,724\\ 4,610\\ 4,2993\\ 4,128\\ 2,993\\ 4,228\\ 4,294\\ 6,218\\ 1,307\\ 2,294\\ 3,500\\ 4,352\\ 2,709\\ 3,304\\ 4,352\\ 2,709\\ 3,304\\ 4,352\\ 2,709\\ 3,965\\ 3,944\\ 4,517\\ 3,965\\ 3,965\\ 3,965\\ 3,964\\ 4,317\\ 4,3$
North Carolina. North Dakota. Ohio. Oklahoma. Oregon. Pennsylvania. Rhode Island. South Carolina. South Carolina. South Carolina. South Dakota. Texas. Utah. Vermont. Virginia. Washington West Virginia. Wisconsin. Wyoming Total	$\begin{array}{r} 95, 747, 638\\ 138, 606, 540\\ 3966, 317, 787\\ 135, 820, 769\\ 92, 844, 946\\ 421, 631, 355\\ 12, 099, 111\\ 52, 954, 637\\ 124, 427, 638\\ 130, 285, 934\\ 202, 974, 353\\ 29, 339, 512\\ 1222, 095, 734\\ 110, 942, 113\\ 140, 524, 518\\ 73, 609, 103\\ 858, 258, 521\\ 14, 613, 581\\ \hline 7, 805, 238, 069\\ \end{array}$	$\begin{array}{c} 25, 551, 506\\ 14, 413, 180\\ 30, 264, 265\\ 22, 214, 546\\ 4, 177, 628\\ 38, 468, 607\\ 174, 902\\ 13, 846, 503\\ 10, 267, 171\\ 37, 166, 063\\ 49, 405, 152\\ 2, 876, 675\\ 3, 877, 039\\ 25, 476, 621\\ 5, 899, 678\\ 17, 715, 107\\ 8, 666, 037\\ 1, 422, 822\\ \hline 707, 666, 492\\ \end{array}$	$\begin{array}{c} 16, 168\\ 50, 065\\ 434, 042\\ 11, 116\\ 43, 988\\ 532, 238\\ 10, 410\\ 1711\\ 10, 591\\ 114, 386\\ 107, 683\\ 73, 606\\ 75, 502\\ 39, 765\\ 84, 868\\ 88, 562\\ 308, 117\\ 6, 837\\ 6, 371, 396\\ \end{array}$	290,223 370,778 456,322 180,462 885,855 21,431 187,846 366,892 415,128 833,586 666,724 290,122 357,969 235,290,122 357,969 235,297 19,675,297	$\begin{array}{c} 2,666\\ 2,657\\ 3,603\\ 2,012\\ 4,136\\ 3,990\\ 2,348\\ 2,339\\ 2,494\\ 1,840\\ 3,560\\ 2,511\\ 4,911\\ 2,984\\ 4,016\\ 2,692\\ \hline 3,412\\ \end{array}$

[Bureau of the Census.]

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TABLE 44.—CREAMERY BUTTER in STORAGE on the first of each month.

[Bureau of Markets and Crop Estimates. Thousand pounds-000 omitted.]

Month.	1915	1916	1917	1918	1919	1920	1921
Jan Feb Mar Apr May June July Aug Sept Oct. Nov Dec.	68, 578 101, 662 99, 450	$\begin{array}{r} 48,977\\ 31,139\\ 15,033\\ 3,346\\ 1,082\\ 7,017\\ 53,863\\ 102,537\\ 105,836\\ 100,522 \end{array}$	Pounds. 46, 134 30, 474 16, 952 6, 805 3, 607 9, 953 49, 982 88, 992 108, 179 109, 154 100, 115 79, 928	Pounds. 50, 726 26, 618 18, 808 14, 629 9, 536 12, 698 49, 140 88, 305 99, 334 87, 883 80, 874 65, 111	Pounds. 43,910 36,777 24,191 11,909 9,659 29,435 90,158 123,546 131,388 121,816 100,474 73,654	Pounds. 53,737 38,359 22,568 12,555 7,554 12,872 52,526 101,455 115,558 113,385 101,778 79,750	Pounds. 58,682 41,486 27,103 14,732 7,712 21,682 62,168 82,838 92,396 90,123 77,893 77,893 65,138

NOTE.—Cold storage in connection with butter in this table means the holding of butter at a temperature of 45° F. or less for a period of at least 30 days.

TABLE 45.—RECEIPTS of BUTTER on New York, Chicago, and San Francisco markets.

[Trade journals and Bureau of Markets and Crop Estimates.2]

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	178, 380	8,844,900 15,234,145 17,936,782
1915. 165, 1916. 176, 1917. 155, 1918. 168,2	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	19, 033, 600 23, 548, 850 23, 905, 100 22, 580, 950 22, 580, 950 22, 580, 950 22, 580, 950 22, 396, 200 27, 694, 300 22, 946, 900 22, 931, 000

¹ Estimated at 60 pounds per tub.

² Bureau reports began in 1919.

TABLE 46 .--- IMPORTS and EXPORTS of BUTTER.

Year ended June 30-	General i	mports.1	Domestic exports.		
1851 1860 1870 1870 1880 1890 1900 1910 1911 1912 1913 1914 1915 1917 1918 1919 1919 1920 1920 1921 ²	$\begin{array}{c} 3,278,967\\ 4,089,038\\ 487,120\\ 75,521\\ 49,791\\ 1,360,245\\ 1,007,826\\ 1,025,668\\ 1,162,253\\ 7,842,027\\ 712,998\\ 523,573\\ 1,805,925\\ 4,131,469\\ 20,770,959 \end{array}$	$\begin{array}{c} Value.\\ \$37,536\\ 506,185\\ \$32,829\\ 95,122\\ 13,679\\ 9,769\\ 298,023\\ 247,961\\ 237,154\\ 304,090\\ 1,753,461\\ 977,262\\ 212,370\\ 192,767\\ 619,303\\ 1,869,132\\ 10,916,770\\ 118,646,456\\ 7,392,247\\ \end{array}$	$\begin{array}{c} Pounds.\\ 3,994,542\\ 7,640,914\\ 2,019,288\\ 39,236,658\\ 29,748,042\\ 18,266,371\\ 3,140,545\\ 4,877,797\\ 6,092,235\\ 3,585,600\\ 3,683,597\\ 9,550,704\\ 13,487,481\\ 26,835,092\\ 17,735,966\\ 33,739,960\\ 27,155,834\\ 17,487,735\\ 8,014,737\\ \end{array}$	$\begin{array}{c} Value,\\ \$516,\$12\\ 1,144,321\\ ,592,229\\ 6,690,687\\ 4,187,489\\ 7,85,771\\ 1,059,432\\ 1,468,432\\ 872,804\\ 877,453\\ 2,392,480\\ 877,453\\ 2,392,480\\ 877,453\\ 2,392,490\\ 1,058,52,27\\ 1,5,843,522\\ 10,142,403\\ 3,269,609\\ \end{array}$	

[Commerce and Navigation Reports; (YB.)]

¹ See explanatory notes at beginning of bulletin.
 ² Year ended Dec. 31. The Commerce and Navigation Reports are now made by years ending Dec. 31

TABLE 47.—Average weekly QUOTATIONS for highest grade of BUTTER on the San Francisco market.

[Pacific Dairy Review and Bureau of Markets and Crop Estimates.¹]

Year.	Averge price per pound.	Year.	Average price per pound.	Year.	Average price per pound.
1899 1900 1901 1902 1903 1904 1905 1906	$\begin{array}{c} \textit{Cents.} \\ 22.9 \\ 23.0 \\ 21.2 \\ 25.5 \\ 27.9 \\ 23.5 \\ 24.7 \\ 25.8 \end{array}$	1907 1908 1909 1910 1911 1912 1913 1914	$\begin{array}{c} \textit{Cents.} \\ 30.5 \\ 27.4 \\ 30.6 \\ 31.4 \\ 27.1 \\ 31.2 \\ 31.7 \\ 27.0 \end{array}$	1915 1916 1917 1918 1919 1920 1921	Cents. 26.3 28.9 39.9 52.2 57 60.2 36.3

¹ Prices by Bureau of Markets and Crop Estimates began in 1919.

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TABLE 48.—Average monthly PRICE of CREAMERY BUTTER, extras or equivalent grade, on New York market.

	1	1						
Month.		1900	1901	1902	1903	1904	1905	1906
January February March April June July August September October December	•	$\begin{array}{c} \textit{Cents.} \\ 26.8 \\ 24.9 \\ 24.9 \\ 16.3 \\ 20.1 \\ 19.4 \\ 19.5 \\ 20.8 \\ 21.5 \\ 21.8 \\ 24.9 \\ 25.3 \end{array}$	Cents. 22.8 22.5 22.1 21.0 19.0 19.3 19.7 20.3 20.9 20.0 24.1 25.0	Cents. 24.1 28.3 28.2 28.8 22.7 22.0 21.3 19.9 21.6 24.0 26.6 29.1	$\begin{array}{c} \textit{Cents.} \\ 27.3 \\ 26.6 \\ 28.4 \\ 26.6 \\ 22.0 \\ 21.7 \\ 20.1 \\ 19.3 \\ 20.6 \\ 21.3 \\ 23.1 \\ 24.2 \end{array}$	Cents. 22, 7 25, 1 24, 5 22, 8 20, 1 18, 0 17, 6 17, 9 19, 4 20, 9 24, 8 26, 8	$\begin{array}{c} \textit{Cents.} \\ 29.1 \\ 32.1 \\ 28.0 \\ 30.0 \\ 23.7 \\ 20.4 \\ 20.5 \\ 21.1 \\ 20.6 \\ 21.8 \\ 23.6 \\ 24.3 \end{array}$	$\begin{array}{c} \textit{Cents.} \\ 26.5 \\ 27.1 \\ 27.0 \\ 21.8 \\ 20.1 \\ 20.2 \\ 20.6 \\ 22.5 \\ 24.6 \\ 26.1 \\ 27.6 \\ 31.6 \end{array}$
Average		22.2	21.4	24.7	23.4	21.7	24.6	24.6
Month.		1907	1908	1909	1910	1911	1912	1913
January February March April. May June July September October November December Average		Cents. 30.8 32.5 30.6 25.0 23.6 24.8 125.5 28.3 29.2 27.7 29.8 28.1	Cents. 31. 5 32. 8 29. 3 29. 0 24. 2 23. 8 22. 9 23. 3 24. 5 27. 4 30. 3 32. 0 27. 6	Cents. 32, 2 31, 0 30, 0 27, 9 27, 0 26, 3 26, 7 27, 7 31, 0 31, 6 31, 9 36, 0 29, 9	Cents. 34.4 30.6 33.5 32.0 29.0 29.0 28.5 29.1 30.3 31.2 31.4 32.5 30.9 31.1	Cents. 28, 0 28, 0 25, 5 22, 1 22, 8 23, 8 25, 9 27, 3 27, 6 31, 4 34, 8 37, 8 27, 9	$\begin{array}{c} Cents.\\ 39.1\\ 31.7\\ 31.8\\ 230.4\\ 27.3\\ 27.1\\ 26.6\\ 29.7\\ 31.2\\ 31.4\\ 37.2\\ 31.6\\ \end{array}$	Cents. 35, 1 36, 3 36, 7 34, 5 28, 6 27, 8 27, 0 27, 9 31, 5 31, 4 33, 8 36, 1 32, 2
Month.	1914	1915	1916	1917	3 1918	1919	1920	1921
January February March April. May June July September October November December	Cents. 32.6 29.3 27.7 25.4 26.1 27.2 27.9 30.4 31.6 34.7 33.9	Cents. 33.5 32.3 29.7 30.7 28.8 28.2 27.0 25.9 26.6 28.6 31.1 35.1	32.6 33.8 36.9 36.0 29.8 28.9 31.2 33.4 33.4 39.4 39.8	$\begin{array}{c} 40.1\\ 43.5\\ 41.6\\ 44.2\\ 40.2\\ 39.1\\ 39.0\\ 41.3\\ 44.6\\ 45.5\\ 49.4\\ \end{array}$	$52 \\ 50 \\ 44 \\ 42 \\ 42 \\ 44 \\ 45 \\ 46 \\ 566 \\ 59 \\ 63 \\ 69 \\ -$	$\begin{array}{c} 62\\ 52\\ 62\\ 64\\ 58\\ 52\\ 53\\ 55\\ 59\\ 68\\ 71\\ 72\\ \end{array}$	Cents. 65 66 67 71 61 57 55 59 60 63 55	Cents. 52.5 47.2 48.1 45.5 31.8 32.7 40.4 42.7 43.1 47.0 44.9 43.8
Average	29.8	29.8	34.9	42.7	51	61	61	43.3

[New York Produce Review and Bureau of Marketsand Crop Estimates.]

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Aug. 5, 1907, "extras" changed to "specials."
 "Extras" and "firsts" took place of "specials" May 13, 1912.
 Prices by Bureau of Markets and Crop Estimates began in 1918.

TABLE 49.—AVERAGE PRICE of BUTTER on New York market—grade of extras.

[New York Produce Review and Bureau of Markets and Crop Estimates.]

	Aver	age price.		Aver	age price.		Avera	ge price.
Year.	Mar- ket quo- ta- tion.	Price in gold during period of cur- rency infla- tion.	Year.	Mar- ket quo- ta- tion.	Price in gold during period of cur- rency infla- tion.	Year.	Mar- ket quo- ta- tion.	Price in gold during period of cur- rency infla- tion.
1866 1867 1869 1870 1870 1871 1872 1873 1875 1876 1876 1877 1878 1879 1880 1881 1882 1883 1884	$\begin{array}{c} \textit{Cents.}\\ 51.1\\ 41.6\\ 49.9\\ 47.3\\ 35.5\\ 34.7\\ 39.4\\ 41.8\\ 34.8\\ 34.8\\ 34.5\\ 30.6\\ 28.3\\ 25.5\\ 30.5\\ 32.0\\ 531.0\\ 30.1\\ \end{array}$	Cents. 36.3 30.1 35.5 35.0 31.8 30.9 34.5 37.6 30.3 31.0 228.1	1885 1886 1887 1887 1889 1890 1891 1893 1893 1894 1895 1895 1896 1895 1899 1900 1900 1902 1903	Cents. 26.8 27.4 26.9 27.3 24.3 23.6 26.2 26.4 27.2 22.3 21.3 18.4 19.1 19.5 21.2 22.2 21.4 24.7 23.4		1904 1905 1906 1907 1909 1910 1911 1913 1914 1915 1916 1917 1918 1919 1920 1921	$\begin{array}{c} \textit{Cents.}\\ 21.7\\ 24.6\\ 24.6\\ 28.1\\ 27.6\\ 29.9\\ 31.1\\ 27.4\\ 31.6\\ 32.2\\ 29.8\\ 29.8\\ 29.8\\ 34.9\\ 42.7\\ 151.0\\ 61.0\\ 43.3\\ \end{array}$	Cents.

¹ Prices by Bureau of Markets and Crop Estimates began in 1918.

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ABLE	50.—CHEESE	production	in	the	United	States
		by kinds.				

[Bureau of Markets and Crop Estimates.]

		1	1	1	1
Kinds of cheese made.	1916	1917	1918	1919	1920
Jeddar:	Pounds.	Pounds.	Pounds.	Pounds.	Pounds.
-Vhole milk.	227,032,328	274,945,880	247, 276, 503	281,836,015	242, 195, 707
art skim	7,856,189				4,346,400
°51ull skim	4,726,450				
Swiss	15, 317, 466		18,586,505		
Limburger	9,623,315				
All Italian	Not given.	Not given.			
Brick and	and ground	1.00 811011			-,,
Münster	41 552 388	45,922,624	43, 332, 215	37,521,004	40,687,832
Cream and	11,002,000	10,022,021	10,002,210	01,021,001	10,001,001
Neufchâtel.	Not given	Not given.	5,774,630	5,500,639	6,858,952
All others		13,232,582			12,087,125
mi others	0,000,000	10,202,002	11,000,200	5,001,151	12,001,120

The Italian, Cream, and Neufchâtel cheeses are included in "All others" for the years 1916 and 1917.

TABLE 51.—Total PRODUCTION of farm and factory CHEESE in the United States.

Year.	Factory cheese.	Farm cheese.	Total cheese.
1849 c 1859 c 1869 c 1877 c 1889 c 1899 c 1904 c 1904 c 1916 m 1917 m 1918 m 1919 m 1919 c 1920 m			481,930,820

[Census Bureau and Bureau of Markets and Crop Estimatesc=census. m=markets.]

There are no records of farm-made cheese except for census years. For production of cheese by States see Tables 38, 39, and 43. Cottage cheese is included in census figures but not in markets figures.

TABLE 52.—DOMESTIC SWISS CHEESE production for 1919 and 1920, by States.

[Bureau of Markets and Crop Estimates.]

2 4.4	Num- ber of	Produ	ction.
State.	facto- ries. ¹	1919	1920
Wisconsin Ohio New York. Illinois California. Pennsylvania Indiana Oregon Michigan Washington	$232 \\ 56 \\ 11 \\ 23 \\ 3 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{c} Pounds.\\ 14,328,204\\ 3,030,357\\ 1,528,704\\ 947,526\\ 938,694\\ 813,061\\ 12,336\\ 1,610\\ 1,300\\ 10\end{array}$	Pounds. 14,396,000 2,208,00 ⁻⁰ 1,634,48.1 596,48.5 65 ^c ,445.5 8 ^c ,431.8 32 ⁻¹ 37,000
Total	353	21,601,782	20,430,000

¹ These are all the factories producing domestic Swiss cheese

TABLE 53.—Amount and value of CHEESE IMPORTED into the United States from France, Greece, Italy, and Switzerland.

Year ended June 30—	Fran	ice.	Greece.	
	Pounds.	Value.	Pounds.	Value.
1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 192	$\begin{array}{c} 3, 673, 117\\ 3, 756, 155\\ 3, 882, 891\\ 3, 982, 513\\ 5, 418, 904\\ 3, 554, 297\\ 2, 321, 543\\ 1, 937, 341\\ 1, 936, 117\\ 404, 722\\ 810, 948\\ 2, 417, 036\\ \end{array}$	\$704, 685 728, 126 942, 683 785, 963 1, 032, 817 737, 212 784, 323 754, 012 528, 926 349, 331 396, 977 926, 343	1, 777, 819 2, 598, 474 2, 703, 745 2, 089, 079 3, 212, 908 3, 003, 349 1, 132, 200 83, 632 None. 7, 366 84, 716	\$230, 031 343, 678 409, 990 321, 182 447, 124 402, 952 169, 536 18, 089
Total	33, 185, 584	8, 671, 400	16, 693, 288	2, 379, 411

[Commerce and Navigation Reports.]

Year ended June 30—	Ita	ly.	Switzerland.		
	Pounds.	Value.	Pounds.	Value.	
1910	$\begin{array}{c} 17, 122, 124\\ 18, 647, 412\\ 20, 625, 202\\ 21, 326, 445\\ 26, 453, 626\\ 25, 662, 362\\ 16, 084, 058\\ 8, 482, 280\\ 16, 044\\ \end{array}$	3, 3175, 640 3, 381, 546 3, 948, 550 4, 217, 674 5, 024, 270 5, 108, 850 3, 855, 856 2, 545, 286 7, 883	$\begin{array}{c} 14,105,458\\ 15,507,767\\ 15,147,393\\ 17,371,616\\ 22,489,706\\ 14,766,682\\ 9,514,008\\ 1,640,656\\ \end{array}$	\$2,372,134 2,758,854 2,857,631 3,183,350 3,617,657 2,677,249 2,031,590 341,063	
1919. 1920. 1921.	57 1,095,740 1,185,912	23 274, 970 396, 484	607, 476 1, 068, 100	304, 239 399, 329	
Total	156, 701, 262	35, 792, 882	112, 218, 862	20, 443, 096	

TABLE 54.—IMPORTS and EXPORTS of CHEESE. [Commerce and Navigation Reports; (YB.).]

Year ended June 30	Imports.	Exports.	Year ended June 30—	Imports.	Exports.
1851 1860 1870 1880 1881 ¹ 1890 1900 1910 1911 1912	2,289,257 2,737,186	Pounds. 10, 361, 189 15, 515, 799 57, 296, 327 127, 553, 907 147, 995, 614 95, 376, 053 48, 419, 353 2, 846, 709 10, 366, 605 6, 337, 559	1913 1914 ² 1915 1916 1917 1918 1919 1920 1920 ³	Pounds. 49, 387, 994 63, 784, 313 50, 138, 520 30, 087, 999 14, 481, 514 9, 839, 305 2, 442, 306 17, 913, 682 15, 993, 725	Pounds. 2, 599, 058 2, 427, 577 55, 362, 917 44, 394, 301 66, 050, 013 44, 330, 978 18, 794, 853 19, 378, 158 16, 291, 319

¹Largest exports. ² Largest imports. ³ Year ended Dec. 31. 75578°-22-5

TABLE 55.—Highest average daily quotations on AMER-ICAN CHEDDAR CHEESE in New York State and New York City.

[Producers' Price Current, and New York Produce Review. Bureau of Markets and Crop Estimates.]

Year.	Price per pound.	Year.	Price per pound.	Year.	Price per pound.
1851 1860 1870 1880 1890 1900	$\begin{array}{r} \hline \textit{Cents.} \\ 5.7 \\ 11.0 \\ 19.2 \\ 13.7 \\ 9.5 \\ 11.2 \\ \end{array}$	1910 1911 1912 1913 1914 1915	Cents. 16.4 14.1 16.4 15.4 15.6 15.5	1916 1917 1918 1919 1920	Cents. 19.0 24.4 27.2 32.2 29.0

¹ Price in gold 16.7 cents.

The quotations for 1851 and 1860 are from market centers outside of New York City. From 1870 on they are from New York City. For 1919 and 1920 from Bureau of Markets and Crop Estimates.

T_{ABLE} 56.—Highest average weekly quotations on DO-MESTIC SWISS CHEESE (round) on the Chicago market.

[Butter, Cheese and Egg Journal.]

Year.	Price per pound.	Year.	Price per pound.	Year.	Price per pound.
1900 1901 1902 1903 1904 1905 1906	$\begin{array}{r} Cents. \\ 12.79 \\ 13.19 \\ 13.06 \\ 12.70 \\ 11.76 \\ 11.72 \\ 12.64 \end{array}$	1907 1908 1909 1910 1911 1912 1913	$\begin{array}{c} \textit{Cents.} \\ 15, 35 \\ 12, 09 \\ 15, 48 \\ 18, 87 \\ 15, 04 \\ 18, 66 \\ 18, 51 \end{array}$	1914 1915 1916 1917 1918 1919 1920	Cents. 16.79 18.57 29.07 36.23 43.60 53.32 48.55

TABLE 57.—PRODUCTION and EXPORTATION of OLEOMARGARIN for the United States.

[Bureau of Internal Revenue.]

Year ended Jan. 30.	Production.	Exporta- tion.	Year ended Jan. 30.	Production.	Exporta- tion.
1887 1890 1900 1905 1910 1911 1912 1913	Pounds. 21, 513, 537 32, 324, 032 107, 045, 028 51, 987, 336 141, 862, 280 121, 162, 795 128, 601, 053 145, 227, 862	Pounds. 834,574 2,535,926 4,256,067 2,543,433 2,864,770 3,146,094 3,150,282 2,477,659	1914 1915 1916 1917 1918 1919 1920 1921	$\begin{array}{r} Pounds.\\ 144,021,276\\ 145,810,048\\ 152,509,913\\ 233,170,111\\ 326,528,839\\ 359,216,571\\ 491,279,512\\ 281,081,514 \end{array}$	Pounds. 2,143,702 3,112,528 2,537,689 2,894,266 2,485,779 10,227,702 10,335,445 3,494,683

The table includes colored and uncolored oleomargarin. No imports have been noted in reports. The Bureau of Internal Revenue is required to keep an accurate account

The Bureau of Internal Revenue is required to keep an accurate account of production and exportation of oleomargarin; however, the exportation figures are generally much lower than the figures reported by the Department of Commerce.

TABLE 58.-Quantity of CHEDDAR CHEESE in STOR-AGE warehouses on the first of each month.

Month.	1915	1916	1917	1918	1919	1920	1921
Jan	Pounds.	28, 558	31, 855	66, 784	Pounds. 19, 823	Pounds. 53, 168	Pounds. 34, 115
Feb Mar Apr		18, 908 13, 373 8, 443	22,113 15,560 9,842	56, 298 37, 743 27, 965	15, 486 9, 837 6, 750	43, 631 34, 039 23, 431	$\begin{array}{c} 25,000 \\ 17,477 \\ 14,294 \end{array}$
May June		6, 546 7, 301 16, 357	7,928 11,626 34,159	17,736 20,395 30,054	6, 027 12, 478	16, 963 13, 502	13, 466 17, 814
July Aug Sept	28, 575	31, 569 46, 776	67, 595 91, 545	48, 804 55, 742	37,501 62,645 76,661	$29,654 \\ 51,512 \\ 60,372$	$34,714 \\ 40,642 \\ 46,706$
Oct Nov Dec	24, 144 32, 428 31, 271	49, 579 45, 713 37, 080	90,671 78,087 75,166	42, 065 33, 402 25, 625	81, 359 72, 889 62, 508	55, 007 48, 456 39, 921	$\begin{array}{r} 44,842 \\ 42,969 \\ 34,062 \end{array}$

[Bureau of Markets and Crop Estimates. Thousand pounds-000 omitted.]

NOTE.—Cold storage in connection with cheese in this table means the holding of cheese at a temperature of 45° F. or less for a period of at least 30 days.

Reports began in September, 1915.

TABLE 59.-PRODUCTION and EXPORTATION of FILLED CHEESE.

[Bureau of Internal Revenue.]

Year ended June 30—	Produc- tion.	Exporta- tion.	Year ended June 30—	Produc- tion.	Exporta- tion.
1897. 1898. 1899. 1900. 1901. 1902 1. 1903. 1904	Pounds. 1, 663, 067 1, 482, 861 1, 688, 650 1, 574, 979 1, 305, 459 571, 183 324, 323	Pounds. 187,113 18,868 1,688,650 1,526,587 1,253,268 571,183 324,323	1905 1906 1907 1908 1909 1910 1911 1912.2	Pounds. 281, 429 127, 152 137, 422 234, 158 33, 031	Pounds. 281, 429 127, 152 137, 422 234, 158 33, 031

¹ No production reported.
 ² None reported after 1912.

A law placing a tax of 1 cent per pound on filled cheese became effect-ive July 1, 1896; however, this kind of cheese had been made for a num-ber of years before that.

TABLE 60.—Average of highest daily QUOTATIONS on RENOVATED BUTTER on the New York market.

Year.	Price.	Year.	Price.	Year.	Price.
1907 1908 1909 1910 1911	Cents. 23.65 23.09 25.21 26.61 21.66	1912 1913 1914 1915 1916	Cents. 26. 84 24. 49 21. 14 24. 39 29. 36	1917 1918 1919 1920	Cents. 38, 19 43, 60 52, 08 51, 54

[New York Produce Review.]

TABLE 61.—PRODUCTION of CONDENSED and EVAPORATED MILK, by years.

Census Bureau and Bureau of Markets and Crop Estimates-c=census m=markets.]

Year.	Num- ber of fac- tories.	Production.	Year.	Num- ber of fac- tories.	Production.
1869c 1879c 1889c 1899c 1904c 1909c 1914c	50	Pounds. 13, 033, 267 37, 926, 821 186, 921, 787 308, 485, 182 495, 197, 844 875, 507, 438	1916m 1917m 1918m 1919m 1919c 1920m		$\begin{array}{c} Pounds.\\ 997, 835, 115\\ 1, 353, 605, 594\\ 1, 675, 477, 360\\ 12, 046, 879, 968\\ 2, 096, 973, 252\\ 1, 578, 015, 000 \end{array}$

¹ The amounts reported for 1919 and 1920, by the Bureau of Markets and Crop Estimates, include sterilized milk canned.

TABLE 62.—IMPORTS and EXPORTS of CONDENSED and EVAPORATED MILK.

[Com	nerce and	Navigation	Reports	(YB).]
		11	1	1

Year ended June30—	Imports.	Exports.	Year ended June 30—	Imports.	Exports.
1892 1900 1910 1911 1912 1913 1914	$\begin{array}{c} Pounds.\\ 1,062,250\\ 472,958\\ 598,134\\ 630,308\\ 698,176\\ 1,778,043\\ 14,599,339\end{array}$	Pounds. (1) (1) 13, 311, 318 12, 180, 445 20, 642, 738 16, 525, 918 16, 209, 082	1915 1916 1917 1918 1919 1920 1920 ²	Pounds. 33, 624, 189 18, 174, 505 18, 375, 698 29, 926, 931 20, 183, 723 19, 080, 642 23, 755, 780	Pounds. 37, 235, 627 159, 577, 620 259, 102, 213 529, 750, 032 728, 740, 509 708, 463, 187 411, 077, 982

¹ Not reported.

² Year ended December 31.

		1			
, ×		1918		1919	
	Facto- ries		Facto- ries	,	
Month.	report- ing month-	Quantity made.	report- ing month-	Quantity made.	
	ly pro- duc- tion.		ly pro- duc- tion.	made.	
		Pounds.		Pounds.	
January	17	195, 356	11	647,078	
February	7	62, 777	12	504, 308	
March	4	101, 436	10	524, 977	
April	6	241,726	12	742, 128	
May	7	186, 146	17	3,348,762	
June		541, 141	18	3,755,273	
July	7	562,814	21	3,660,376	
August	9	778,009	21	3,031,189	
September	12	1,201,400	21	2, 424, 572	
October	8	1, 178, 646	15	1,401,863	
November	13	966, 296	15	1, 179, 880	
December	9	518,276	15	1, 315, 174	
Total		6, 534, 023		22, 535, 580	

TABLE 63.—Production of CONDENSED or EVAPO-RATED BUTTERMILK, by months, for 1918 and 1919.

[Bureau of Markets and Crop Estimates.]

Total number of factories in 1918 was 31; total product, 12,040,642 pounds. Total number of factories in 1919 was 25; total product, 24,282,25 pounds.

Total number of factories in 1920 was 5: total product, 32,539,000 pounds.

TABLE 64.—Production and importation of CASEIN (lactarene).

[Production from Census Bureau and Bureau of Markets and Crop Estimates; imports from Commerce and Navigation Reports—c= census; m=markets.]

Year.	Production.	Imports.1	Value of imports.	Import price per pound.
1899c	Pounds. 12,298,405	Pounds.		Cents.
1904c	11, 581, 874			
1906		1 557 004	\$61,004	4.4
1907		1,557,904 263,471	$92,622 \\ 13,471$	5.0
1909		2,447,332	184,815	7.6
1909c		3,769,476	304,001	8.1
1911. 1912.		13,011,018 9,138,338	1,109,466 830,845	8.5 9.1
1912		8,805,891	649,371	7.4
1914c	18,570,220	10,798,614	705, 264	6.5
1915	0 401 072	7,919,992 10,376,641	498,897 984,899	6.3 9.4
1916m 1917m		12, 319, 111	1,843,492	14.9
1918m	8,675,504	12, 106, 855	1,765,653	14.5
1919m	13,924,836	8, 125, 175	959, 995	11.8
1919c 1920m	11, 526, 000	24,039,313	2,783,548	11.5
1020111	11,020,000	-1,000,010	-,,	

¹ Fiscal year, June 30.

[Bureau of Markets and Crop Estimates and Census Bureau.]

Year.	Whole-milk powder.	Skim-milk powder.	Total.
1914 1916 1917 1918 1919 1919 1919 1919 1920	Pounds. 2, 123, 251 3, 138, 809 4, 154, 334 8, 660, 785 10, 334, 000	Pounds. 16, 463, 362 22, 624, 357 25, 432, 341 33, 076, 131 41, 893, 000	Pounds. 20, 987, 911 18, 586, 613 25, 763, 166 30, 250, 701 42, 328, 086 106, 711, 288 52, 227, 000

¹From the census reports, all kinds

TABLE 66.—Production of BUTTERMILK POWDER and MALTED MILK, by years.

[Bureau of Markets and Crop Estimates.]

Year.	Buttermilk powder.	Malted milk.
1916 1917 1918	Pounds. 342, 485 2, 557, 228 4, 341, 157 5, 278, 827 5, 585, 906	Pounds. 11, 654, 384 13, 851, 939 15, 622, 876 17, 435, 887 19, 715, 000

TABLE 67.—Production and importation of MILK SUGAR (lactose).

[Production from Census Bureau and Bureau of Markets and Crop Estimates, imports from Commerce and Navigation Reports—c= census; m=markets.]

Year.	Produc- tion.1	Imports.2	Year.	Produc- tion.1	Imports.2
1910 1911 1912	Pounds.	$\begin{array}{c} Pounds. \\ 4,709 \\ 4,960 \\ 4,732 \\ 2,697 \\ 9,026 \\ 578,727 \\ 250,212 \end{array}$	1916m 1917m 1918m 1919m 1919c 1920m	Pounds. 1, 844, 228 2, 155, 076 3, 219, 461 6, 615, 874 5, 583, 000	Pounds. 22,400 None. None. None.

¹ Calendar year.

² Fiscal year ended June 30.

TABLE						produced
	in	the Ur	nited Sta	ates, by	years.	

Year.	Total pro- duction. ¹	Total pro- duction. ²	Year.	Total pro- duction. ¹	Total pro- duction. ²
1909 1910 1911 1912 1913 1914 1915	$\begin{array}{c} Gallons.\\ 80,000,000\\ 95,450,000\\ 138,000,000\\ 160,000,000\\ 172,380,000\\ 172,380,000\\ 163,761,000\\ 175,224,270\end{array}$	Gallons.	1916 1917 1918 1919 1920 1821	$\begin{array}{c} Gallons.\\ 208, 320, 000\\ 219, 385, 000\\ 231, 053, 000\\ 248, 381, 975\\ 251, 820, 490\\ 216, 569, 212 \end{array}$	Gallons. 210,000,000 220,000,000 230,000,000 260,000,000

¹ From the International Confectioner. ² From Dairy Division, Bureau of Animal Industry, and Bureau of Markets and Crop Estimates.

TABLE 69.-Production of ICE CREAM of all kinds, by months, for the year 1920, for 2,427 factories.

Month.	Quantity made. ¹	Month.	Quantity made. ¹
January February. March. April. May. June. June. July.	$\begin{array}{r} 4,986,374\\ 7,323,202\\ 9,296,571\\ 15,112,932\\ 20,695,601 \end{array}$	August September October November December Total	15, 222, 342

[Bureau of Markets and Crop Estimates.]

¹ The reported production of ice cream is considered to be about 50 per cent of the total production.

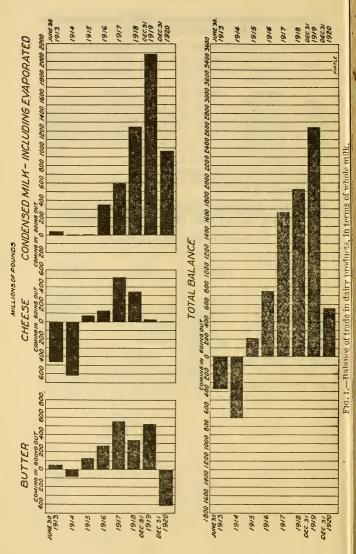


TABLE 70.-Balance of BUTTER, CHEESE, and CON-DENSED MILK, taken separately.

[From Department of Commerce reports.]

[Expressed in terms of whole milk.]

Year			Che	ese.	Condensed milk.1	
ended June 30—	Imports.	Exports.	Imports.	Exports.	Im- ports.	Exports.
1919 ² .		$129,251,262 \\268,428,678 \\552,536,964 \\334,530,861 \\525,779,457$		72, 657, 890 129, 737, 640 513, 641, 470 344, 916, 730		Pounds. 36, 869, 685 3, 144, 991 9, 305, 595 599, 364, 492 1, 249, 557, 753 2, 089, 180, 437 968, 305, 505

¹ Condensed milk includes condensed cream, condensed skim milk, and evaporated milk. The figures for 1920 are preliminary and subject to slight change. ² Year ended Dec. 31.

TABLE 71 .- Total balance of BUTTER, CHEESE, and CONDENSED MILK, combined.

[From Department of Commerce reports.]

[In terms of whole milk.]

Year ended June 30-	Net imports.	Net exports.
1913. 1914. 1915. 1916. 1917. 1917. 1918. 1919. year ended Dec. 31. 1920, year ended Dec. 31.	703, 444, 633	$1,665,542,926 \\1,929,005,344 \\2,643,235,064$

EXPLANATION OF FIGURE 1.1

This chart was plotted from the difference of imports and exports, and includes butter, cheese, and condensed milk. The chart expresses these differences in terms of milk, assuming that-

1 pound of butter equals	21	pounds of milk.
1 pound of cheese equals		
1 pound of condensed milk equals	$. 2\frac{1}{2}$	pounds of milk.

¹For detailed figures see Tables 70 and 71.

FOREIGN COUNTRIES. TABLE 72.—Pan American countries—IMPORTS and EXPORTS of BUTTER.

[Commerce and Navigation Reports.]

Country.	Year.	Imports.	Exports.
Argentina. Bolivia. Brazil. British Guiana Chile. Colombia ¹ . Costa Rica. Cuba. Ecuador ¹ . Guatemala ¹ . Haiti ¹ . Honduras ¹ . Mexico ¹ . Nicaragua ¹ . Paragua ² .	1919 1913 1919 1913 1915 1916 1915 1916 1916 1916 1916 1916	Pounds. 114,690 42,421 495,614 314,144 36,909 24,486 1,701,254 16,883 426,200 101,516 667,149 55,756 621,527 9,996	Exports. Pounds. 39,609,970 2,844
Peru ¹ . Santo Domingo ¹ . Salvador ¹ . Uruguay. Venezuela.	$1916 \\ 1916 \\ 1916 \\ 1911 \\ 1915 \\$	50,93656,2645,53313,440568,762	220

¹ United States trade only.

TABLE 73.—Pan American countries—IMPORTS and EXPORTS of CHEESE.

[Commerce and Navigation Reports.]

Country.	Year.	Imports.	Exports.
Argentina. Bolivia. Brazil. British Guiana. Chile. Colombia ¹ .	1919 1915 1919 1919 1915 1916	Pounds. 27, 291 210, 453 419, 767 15, 748	Pounds. 19, 561, 416
Costa Rica. Cuba Ecuador 1. Guatemala 1. Haiti 1. Honduras 1.	1915 1918 1916 1916 1916 1916	$52,6723,318,3031,01627,12252,590\\60,394$	5, 137
Mexico 1 Micaragua 1 Panama 1 Paraguay	1913 1916 1916 1916 1915 1915	$1,870,385 \\168,389 \\27,460 \\445,237 \\47,520 \\5,754$	
Santo Domingo'. Salvador '. Uruguay. Venezuela.	1916 1916 1911 1915	87,525 5,256 587,216 102,051	(1914) 28, 250 4, 010

¹ United States trade only.

TABLE 74.—Pan American countries—Imports of CON-DENSED MILK.

Country.	Year.	Imports.	Country.	Year.,	Imports.
Argentina Bolivia Brazil British Gui- ana. Chile Costa Rica Cuba Ecuador ¹ Guatemala ¹ Haiti ¹	1919 1914 1914 1913 1915 1916 1915 1917 1916 1916 1916	Pounds. 882, 413 7, 461, 967 1, 573, 930 111, 841 245, 579 36, 497, 528 27, 493 36, 534 19, 726	Honduras ¹ Mexico ¹ Panagua ¹ Paraguay Peru ¹ Santo Do- mingo ¹ Salvador ¹ Uruguay Venezuela	1916 1916 1916 1915 1916 1915 1916 1916	Pounds. 186,596 1,499,279 106,756 4,071,203 71,945 6,720 21,504 23,911

[Commerce and Navigation Reports.]

¹ United States trade only, for fiscal year ended June 30.

TABLE 75.—Argentina—Number of DAIRY COWS and TOTAL CATTLE.

[Comision del Censo Agropecurio, Estadistica Agricola, and Argentine Yearbook, (YB.). c=census. e=estimates.]¹

Year.	Dairy cows.	Totalcattle.	Year.	Dairy cows.	Total cattle.
1888c 1895c 1908c 1914c	1,800,799 2,163,900 2,246,000	$\begin{array}{c} 21,963,930\\ 21,701,526\\ 29,116,625\\ 25,866,763 \end{array}$	1915e 1916e 1917e 1918e	2,291,000 2,319,000 2,349,000 2,378,000	26,387,000 26,717,000 27,052,000 27,392,000

¹ Estimates by Argentine Department of Agriculture.

TABLE 76.—Argentina—Number of CATTLE, by classes.

[Report of Third Census, 1914.]

Kinds.	Milk cows.	Cows for breeding.	Bulls.	Calves and young stock.	Steers and oxen.	Total cattle.
Purebred Mixed breed Criollos(native) Total	· · · ·	7,785,591	307, 669 308, 661	6,734,650 3,536,736	506,155	407, 333 16, 324, 692 9, 134, 738 25, 866, 763

Year.	Butter production.	Per capita consump- tion.	Cheese production.	Per capita consump tion.		
1903 1904	Pounds. 19,477,924	Pounds. 1.53	Pounds. 2,619,086	Pounds. 1.01		
1905 1905 1906 1907	19,475,371 17,733,305 14,832,672	$1.35 \\ 1.34 \\ 1.31$	4,299,897 3,073,887 4,124,411	$1.51 \\ 1.74 \\ 1.83$		
1908. 1909. 1910.	15,978,170 15,766,680 16,617,131 17,497,408	1.25 1.02 1.43 1.92	4,135,770 6,799,630 6,044,878 7,744,002	$ \begin{array}{r} 1.88 \\ 2.30 \\ 2.17 \\ 2.40 \\ \end{array} $		
1911 1912 1913 1914	17,427,498 20,849,689 22,482,506 20,518,984	1.92 1.64 1.77 1.57	7,745,993 11,962,256 12,542,898 11,933,500	$2.49 \\ 3.07 \\ 2.95 \\ 2.50$		
1915 1916 1917	22,367,645 24,826,000 33,404,099	1.47 1.48 1.41	14,938,370 19,195,452 35,050,935	2.68 2.63 3.58		
1918 1919	53, 924, 516 1 56, 722, 973	1.44 1.42	45,009,114 1 49,893,528	$3.72 \\ 3.67$		

TABLE 77.—Argentina—Production and consumption of BUTTER and CHEESE in factories.

[Estadistica Agricola.]

¹ Preliminary figures.

TABLE 78.—Argentina—Imports and exports of BUTTER and CHEESE.

	В	utter.	Cheese.		
Year.	Imports.	Exports.	Imports.	Exports.	
1870	Pounds. 103,001 240,777 	Pounds. 8,721 	$\begin{array}{c} Pounds.\\ 1,263,317\\ 1,252,457\\ 2,620,504\\ 3,028,728\\ 9,536,001\\ 10,845,500\\ 11,848,927\\ 11,122,205\\ 8,453,245\\ 7,305,954\\ 3,133,279\\ 6,89,356\\ 8,894\\ 209,243\\ \end{array}$	Pounds. 3,104 3,104 3,104 3,104 3,104 3,104 3,144 502,648 6,014,148 6,014,148 14,177,253 19,561,969 13,860,915	

[Argentine Yearbook, Estadistica Agricola.]

¹ Special report to Bureau of Markets and Crop Estimates.

Year.	Total milk		Butter. ,			
produced.	Factory.	Farm.	Total.			
1901		Pounds.	Pounds.	Pounds. 101, 671, 066		
1903 1904 1905 1906 1907 1908 1909 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918		129, 157, 191 136, 007, 354 174, 227, 684 195, 228, 226 171, 042, 044 181, 386, 305 178, 778, 836 121, 664, 559 165, 038, 927 183, 301, 056		$\begin{array}{c} 100, 332, 242\\ 140, 255, 208\\ 140, 898, 726\\ 159, 934, 617\\ 156, 380, 670\\ 145, 317, 357\\ 154, 273, 252\\ 193, 211, 909\\ 211, 573, 745\\ 187, 194, 161\\ 198, 758, 238\\ 193, 970, 412\\ 137, 672, 313\\ 182, 470, 778\\ 200, 497, 014\\ 181, 802, 675\\ \end{array}$		
1919			•••••	165, 468, 791		

Cheese.

Farm.

Pounds.

4,200,911 3,523,662 2,794,841

PRODUCTS.

[Yearbook and Bulletin of Production.]

45

TABLE 79-Australia-Production of DAIRY

 $\begin{array}{c} 13,423,674\\ 12,635,257\\ 33,155,030\\ 14,847,958\\ 13,383,563\\ 14,759,788\\ 15,774,837,011\\ 15,886,712\\ 16,160,491\\ 15,886,712\\ 10,743,415\\ 21,240,411\\ 15,829,226\\ 25,408,872\\ 27,430,805\\ 23,790,240\\ 26,190,292\\ \end{array}$ 1907 $\begin{array}{c} 11,\,120,\,147\\ 11,855,754\\ 12,060,\,474\\ 12,167,732\\ 11,946,221\\ 14,219,305\\ 16,666,773\\ 12,108,959\\ 21,207,961\\ 23,907,143\\ 20,995,399 \end{array}$ 3, 639, 641 3, 919, 083 4, 476, 537 3, 718, 979 4, 214, 270 5, 524, 110 4, 573, 638 3, 720, 267 4, 200, 9111908..... 1909..... 1910 1911..... 1912..... 1913 1914.....

Factory.

Pounds.

Total.

Pounds.

11, 575, 692

Condensed and pow-dered milk

produced.

Pounds.

 $\begin{array}{c} 7,\,949,\,022\\ 9,\,643,\,551\\ 12,\,926,\,201\\ 12,\,491,\,261\\ 22,\,983,\,707\\ 30,\,059,\,911\\ 32,\,684,\,483\\ 32,\,052,\,694\\ 26,\,977,\,000\\ 45,\,694,\,897\\ 56,\,188,\,045\\ 63,\,289,\,645\\ \end{array}$

.

Year.

1901.....

1915.....

1916..... 1917 1918..... 1919.....

1902

1903... 1904.... 1905.... 1906.....

TABLE 80.—Australia—Number of DAIRY COWS and TOTAL CATTLE.

[Statistical account by T. A. Coughlin. Also An. Rep., U. S. Bureau of Animal Industry, 1900 (YB.)].

Year.	Dairy cows.	Total cattle.	Year.	Dairy cows.	Total cattle.
1788 1792 1800 1851 1861 1871 1881 1891 1900 1910	21,143,276 2,064,599	$(1) \ 6 \\ 23 \\ 1,044 \\ 1,921,963 \\ 4,039,839 \\ 4,713,820 \\ 8,709,628 \\ 11,112,112 \\ 8,640,225 \\ 11,744,714 \\ (14)$	1911 1912 1913 1914 1915 1916 1917 1918 1919 1920	$\begin{array}{c} 2, 120, 469\\ 2, 056, 143\\ 2, 035, 717\\ 1, 938, 834\\ 1, 684, 393\\ 1, 747, 351\\ 1, 904, 906\\ 1, 902, 036\\ \end{array}$	$\begin{array}{c} 11, 828, 954\\ 11, 577, 259\\ 11, 483, 882\\ 11, 047, 677\\ 9, 931, 416\\ 10, 467, 737\\ 11, 956, 024\\ 12, 738, 852\\ 12, 888, 617\\ \end{array}$

¹ The first importation of cattle was in 1788 and consisted of six head. ² 1899.

TABLE 81.—Australia—Exports of DAIRY PRODUCTS. [Trade Customs and Excise Revenue.]

Year.	Butter.	Cheese.	Condensed milk.	Milk powder.
1899	Pounds. 2, 363, 088 2, 976, 848 13, 608, 224 34, 536, 277 55, 904, 151 87, 884, 943 101, 722, 136 66, 679, 120 75, 795, 642 54, 021, 523 54, 021, 523	Pounds. None. None. 293,381 193,608 911,760 1,149,134 146,022 1,602,609 2,542,478 128,229 10,569,279	Pounds. None. None. None. 266,904 870,112 812,520 1,516,160 4,765,619 544,713 15,236,950	Pounds. None. None. None. None. 146,960 833,894 1,263,803
1918. 1919. 1920.	72,277,526 41,114,764 92,420,800	8,426,647 2,303,276	25, 181, 569 27, 272, 055	404, 823 662, 943

¹ Galendar year from 1899 to 1913, inclusive; then changed to fiscal year ended June 30. No figures for the year 1914.

TABLE	82.—Austria—Number	of	COWS	and	TOTAL
CATTLE.					

[Various authorities; (YB.).]

Year.	Cows.	Total cattle.	Year.	Cows.	Total cattle.
1869 1880 1890	3, 831, 136 4, 138, 625 4, 254, 303	7, 425, 212 8, 584, 077 8, 643, 936	1900 1910	4, 749, 152 4. 901, 886	9, 511, 170 9, 160, 009

Year.1	Dairy cows.	Total cattle (YB.).	Year.1	Dairy cows.	Total cattle
1871 ² 1881 1891 1901 1910 1911 1912 1913	$\begin{array}{c}1&857,112\\2,408,677\\2,853,957\\2,594,179\end{array}$	$\begin{array}{c} 2, 624, 290\\ 3, 514, 989\\ 4, 120, 586\\ 5, 327, 504\\ 7, 104, 893\\ 6, 533, 436\\ 6, 431, 861\\ 6, 656, 121 \end{array}$	1914 1915 1916 1917 1918 1919 1920 1921	$\begin{array}{c} 2,673,286\\ 2,666,846\\ 2,833,433\\ 3,202,283\\ 3,538,600\\ 3,548,437\\ 3,530,238\\ 3,736,832 \end{array}$	$\begin{array}{c} 6,036,817\\ 6,066,001\\ 6,594,151\\ 7,920,940\\ 10,045,867\\ 10,085,011\\ 9,477,380\\ 10,206,205 \end{array}$

[The Dairy Industry of Canada; and Monthly Bulletin of Agricultural Statistics.]

¹ On June 15.

² Data for 1871 included only Ontario, Quebec, New Brunswick, and Nova Scotia.

TABLE 84.—Canada—Production of BUTTER and CHEESE.

[Dairy and Cold Storage Commissioner's Reports, and Yearbooks.]

	Fa	rm.	Factory.		
Year.	Butter.	Butter. Cheese.		Cheese.	
1071	Pounds.	Pounds.	Pounds.	Pounds.	
1871. 1881.		4, 984, 843 3, 184, 996		• • • • • • • • • • • • • • • • •	
1891 1901	105, 343, 076	6, 267, 203	36, 066, 739	220, 833, 269	
			64, 698, 165 83, 991, 453	$199, 904, 205 \\183, 887, 837$	
1917			82, 564, 130 87, 526, 939	192,968,597 194,904,336	
1918 1919			93, 266, 876 101, 554, 131	174,881,957 167,734,982	
1920	¹ 125, 000, 000	• • • • • • • • • • • • • • • • • •	111,691,718	149, 201, 856	

	Total.		
Year.	Butter.	Cheese.	
1871 1881	141, 409, 815 201, 808, 365		
1917. 1918. 1919. 1920.	$\begin{array}{c} 226, 554, 131 \\ 236, 691, 718 \end{array}$	167, 734, 982 149, 201, 856	

¹ Farm butter estimated by Canadian officials.

Titreel	But	tter.	Cheese.	
Fiscal year.	Imports.	Exports.	Imports.	Exports.
1870 1	$126, 848 \\381, 329 \\1, 175, 301 \\393, 582 \\1, 227, 390 \\3, 874, 587$	Pounds. 12, 260, 887 18, 535, 362 1, 951, 585 25, 259, 737 4, 615, 380 3, 142, 682 8, 844, 402 8, 844, 402 8, 844, 402 8, 8, 414, 183 7, 990, 435 4, 926, 154 13, 659, 157 17, 612, 605 9, 739, 414	Pounds. 59, 744 106, 815 127, 556 301, 098 683, 778 866, 653 919, 189 1, 495, 758 1, 512, 108 1, 62, 465 971, 821 785, 221 343, 269 9172, 943 3626, 693 551, 040	Pounds. 5, 8277, 82 94, 260, 187 185, 984, 430 180, 859, 886 181, 983, 724 163, 450, 634 155, 216, 392 144, 478, 340 137, 601, 661 163, 961, 583 189, 733, 426 169, 530, 753 126, 395, 777 126, 395, 777 126, 395, 777

TABLE 85.—Canada—Imports and exports of BUTTER and CHEESE.

[Trade and Commerce Reports and Bulletin Commercial Series No. 1.]

¹ 1870 to 1900, year ended June 30. ² 1910 to 1920, year ended Mar. 31.

TABLE 86.—Canada—Exports of CREAM, CASEIN, and CONDENSED and EVAPORATED MILK.

[Trade and Commerce Reports, and Bulletin Commercial Series No. 1.]

Fiscal year.	Cream.	Casein.	Condensed and evap- orated milk.
1911	$\begin{array}{c} Gallons.\\ 1, 823, 821\\ 886, 266\\ 820, 360\\ 1, 823, 929\\ 1, 895, 575\\ 1, 262, 280\\ 803, 498\\ 585, 601\\ 485, 015\\ 795, 780\\ 1, 279, 195 \end{array}$	Pounds. 1,515,172 1,021,197 349,865 270,486 230,045 50,564 50,564 50,588 16,200 9,110	Pounds. 6,584,828 4,389,350 335,849 9,339,382 18,355,975 13,247,834 15,858,622 43,656,718 50,786,856 54,247,498 49,147,541

Year ended Mar 31.

TABLE 87.—Canada—Production of CONDENSED and POWDERED MILK.

[Canadían News Letter, and Dairy and Cold Storage Commissioner's Reports.]

Year.	Condensed milk.	Milk powder.	Year.	Condensed milk.	Milk powder.
1910 1917 1918	Pounds. 27, 831, 596 61, 520, 811 79, 807, 971	Pounds. 5, 323, 537 3, 979, 514 5, 530, 915	1919 1920	<i>Pounds.</i> 85, 961, 610 92, 104, 562	Pounds. 6, 591, 099 7, 574, 668

TABLE 88.—Denmark—Number of DAIRY COWS and TOTAL CATTLE.

[Department of Statistics of Denmark, Statistisk Aarbog, and Statistik Arsbok.]

Year.	Dairy cows.	Total cattle (YB.).	Year.	Dairy cows.	Total cattle (YB.).
1876 1881 1893 1903 1 1909 1 1914 1 1915 2	898,012 898,790 1,011,098 1,089,073 1,281,974 1.310,268 1,281,132	1,348,321 $1,696,190$ $1,840,466$ $2,253,982$ $2,462,862$ $2,416,471$	1916 3 1917 4 1918 5 1919 5 1920 5 1921 5 	$\begin{array}{c} 1,141,246\\ 1,147,183\\ 1,024,417\\ 1,042,143\\ 1,195,733\\ 1,184,268\end{array}$	2,289,996 2,458,158 2,123,722 2,188,142 2,286,408 2,591,000

¹ Number on July 15.
 ² Number on May 15.
 ³ Number on Feb. 20.

4 Number on July 1.

⁵ Number on July 15, including South Jutland.

TABLE 89.—Denmark—Imports and exports of BUTTER. [Denmarks Vareindíorsel og udforsel; Statistisk Tabelvaerk. (YB.)].

Veen	But	Butter.		But	Butter.	
Year.	Imports.	Exports.	Year.	Imports.	Exports.	
1866 1870 1880 1890 1900 1911 1911 1912 1913		Pounds. 10,710,194 13,804,782 27,057,726 98,167,019 131,100,071 195,052,426 197,481,675 187,755,000 200,670,408	1914 1915 1916 1917 1918 1919 1920 1921	Pounds. 3,054,473 686,733 190,698 882 220	Pounds. 210, 084, 491 223, 964, 432 211, 090, 450 135, 501, 550 32, 305, 547 30, 908, 820 2 165, 345, 000 2 199, 584, 863	

¹Imports for 1890 and 1900 were "general." From 1910 the imports were for "special trade only."

² Semioflicial, preliminary.

TABLE 90.—Denmark—Average of the official weekly quotations on BUTTER.

Year.	Price per pound. ¹	Year.	Price per pound.1	Year.	Price per pound.1
1851 1860 1870 1880 1890 1900	Cents. 10.72 13.67 19.83 24.12 24.39 26.80	1910 1911 1912 1913 1914 1915	Cents. 26. 26 30. 55 29. 48 29. 75 32. 16 36. 70	1916 1917 1918 1919 1920 1921	$\begin{array}{c} \textit{Cents.} \\ 41, 10 \\ 62, 20 \\ 59, 10 \\ 74, 00 \\ 78, 85 \\ 57, 25 \end{array}$

[Smør Tidende.]

¹ Conversion made at the rate of 1 krone equals 26.8 cents.

TABLE 91.-Finland-Number of COWS, TOTAL CAT-TLE, and REINDEER.

[Statistisk Arsbok.]

Year.	Cows.	Total cat- tle (YB.).	Rein- deer. ³	Year.		Total cat- tle (YB.).	
1865 1870 1880 1890 1900 1910 ¹ 1911	795,575 928,276 1,072,002 1,142,908	954, 321 997, 960 1, 132, 002 1, 305, 187 1, 427, 560 1, 573, 163		1913 1914 1915 ² . 1916 1917	$\begin{array}{c} 1,151,659\\ 1,141,757\\ 1,164,229\\ 1,114,447\\ 1,080,558\\ 1,075,749\\ 1,015,901 \end{array}$	$1,603,720 \\ 1,537,936 \\ 1,501,975 \\ 1,500,670$	

The figures for 1910 are for month of September.
 Data for 1915 to 1918 are directly from the Finnish Government.
 The number of reindeer since 1895 has averaged about 125,000 head.

TABLE 92.—France—Number of COWS, TOTAL CAT-TLE, SHEEP, and GOATS.

[Statistique Agricole Annuelle, and Annuaire Statistique; also Enquête sur l'Industrie de Lait, 1902; (YB.).]

Year	Cows.	Total cattle.	Sheep.	Goats.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 5, 501, 825\\ 5, 781, 465\\ 6, 402, 261\\ 6, 509, 325\\ 6, 673, 460\\ 7, 819, 582\\ 7, 596, 250\\ 7, 606, 670\\ 7, 745, 750\\ 7, 745, 750\\ 7, 745, 750\\ 7, 745, 750\\ 7, 745, 750\\ 6, 266, 033\\ 6, 221, 850\\ 6, 221, 850\\ 6, 221, 850\\ 6, 237, 470\\ 6, 337, 470\\ 6, 337, 470\\ 6, 327, 510\\ 6, 544, 460\\ \end{array}$	$\begin{array}{c} 11, 761, 538\\ 11, 970, 737\\ 12, 811, 589\\ 12, 997, 054\\ 13, 662, 585\\ 13, 708, 997\\ 14, 520, 832\\ 14, 332, 030\\ 14, 435, 530\\ 14, 435, 530\\ 14, 435, 530\\ 12, 668, 000\\ 12, 614, 414\\ 12, 342, 000\\ 12, 614, 414\\ 12, 342, 000\\ 12, 250, 820\\ 12, 373, 660\\ 12, 755, 720\\ \end{array}$	14, 804, 946 14, 572, 430 9, 758, 528 8, 804, 401 20, 180, 000 16, 425, 000 16, 213, 000 16, 468, 000 16, 33, 189 12, 379, 000 9, 496, 000 8, 991, 000 9, 376, 630	964, 300 1, 216, 774 2, 336, 332 1, 335, 736 1, 555, 000 1, 418, 000 1, 424, 000 1, 409, 000 1, 453, 000 1, 137, 000 1, 177, 000 1, 167, 000

¹ Not including the invaded portion.

TABLE 93.—France—IMPORTS of BUTTER, CHEESE, and CONDENSED MILK.

[Tableau Général du Commerce de la France; (YB.).]

Year.	Butter.	Cheese.	Condensed milk.
1850 1860 1870 1880 1890 1900 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920	$\begin{array}{c} Pounds,\\ 3, 493, 996\\ 3, 926, 503\\ 6, 635, 326\\ 15, 641, 716\\ 14, 164, 738\\ 13, 559, 262\\ 10, 656, 375\\ 19, 939, 064\\ 14, 179, 326\\ 13, 033, 816\\ 13, 654, 631\\ 1, 710, 549\\ 742, 288\\ 1, 932, 663\\ 12, 752, 228\\ 4, 812, 000\\ \end{array}$	Pounds. 9,568,652 11,493,484 23,756,057 34,811,710 25,725,722 42,635,400 49,011,340 49,423,380 55,494,410 55,002 45,521,242 46,743,913 24,139,268 12,046,816 11,206,202 15,233,243 15,130,000	Pounds. 8,718,364 608,170 1,070,571 1,631,624 2,724,004 2,724,004 3,205,047 3,283,972 15,535,375 8,524,900 21,894,764 87,652,691 33,440,4320 103,496,490
	1,012,000	10, 100, 000	

TABLE 94.—France—EXPORTS of BUTTER, CHEESE, and CONDENSED MILK.

Year.	Butter.	Cheese.	Condensed milk.
1850	Pounds. 4,870,497	Pounds. 1,866,048	Pounds.
1860.	26,073,317	3,458,969	
1870.	42,300,974	4,676,261	
1880.	68,484,843	9,407,683	$167,772 \\ 1,594,510$
1890.	89,784,546	12,232,137	
1900.	44,658,761	18,467,555	
1910.	$\frac{48,427,787}{28,221,305}$	25,160,659	4,251,351
1911.		24,041,383	3,134,280
1912.	37,571,675	27,689,555	4, 136, 932
1913.	38,359,820	37,386,709	5, 379, 224
1914.	44,619,000	22,323,780	4, 315, 063
1915.	50, 336, 088	16,241,729	6, 370, 192
1916.	18, 936, 632	11,704,221	2, 205, 702
1917	6,728,439	7,403,488	932,105
1918	2,619,506	5,212,556	726,636
1919	1,119,055	7,336,027	2,121,487
1920	4,812,000	15,130,000	2,121,407

[Tableau Général du Commerce de la France; (YB.).]

TABLE 95.—Germany—Number of COWS, TOTAL CAT-TLE, and GOATS.

[Statistisches Jahrbuch, and Imperial Gazette.]

Year.	Cows.	Total cattle (YB.).	Goats(YB.).
1883. 1892. 1900. 1907. 1912. 1913. 1914. 1914. 1915. 1916. 1917. 1917. 1918. 19	$\begin{array}{r}9,087,293\\9,946,255\\10,458,631\\10,966,998\\10,944,283\\11,320,460\\11,316,457\\10,970,009\end{array}$	15, 786, 764 17, 555, 834 18, 939, 692 20, 630, 544 20, 182, 021 20, 994, 344 21, 817, 375 20, 316, 948 20, 338, 950	$\begin{array}{c} 3,091,508\\ 3,266,997\\ 3,330,000\\ 3,410,396\\ 3,548,384\\ 3,538,414\\ 3,438,296\end{array}$
1917 1918 1919 ² 1920 1921		$\begin{array}{c} 19,649,575\\ 17,226,855\\ 16,317,329\\ 16,789,844\\ 16,839,559 \end{array}$	4, 564, 210

¹ September.

TABLE 96.—Germany—Per capita BUTTER and CHEESE CONSUMPTION.

Year.	Butter consump- tion.	Cheese consump- tion.
1912	Pounds.	Pounds. 9,5
1913. 1918.	14.7 9.2	

TABLE 97.—Germany—YIELD of MILK and PRODUC-TION of DAIRY PRODUCTS.

[Food conditions in Germany, E.H. Starling, 1919.]

Year.	Average milk yield.	Total milk yield.	Butter pro- duced.	Cheese pro- duced.
1909–1913 ¹ 1916 1917 1918	Gallons. 580 495 412 357	<i>Gallons</i> . 6, 174, 025, 000 4, 290, 000, 000 3, 657, 500, 000 3, 135, 000, 000	Pounds. 881,840,000	Pounds. 590, 832, 800

¹ Average.

TABLE 98.—Germany—IMPORTS of DAIRY PROD-UCTS.

[Auswärtiger Handel Deutschland and Bul. 103, Bureau of Statistics; (YB.).]

Year.	Butter.	Cheese.	Condensed milk.	Whole milk.
1897 1900 1910 1911 1912 1913 1914 1920 ²	92, 815, 865 123, 619, 418 122, 472, 143 119, 576, 189	Pounds, Npt found. 36, 689, 123 46, 011, 104 45, 954, 448 47, 276, 765 57, 902, 937 50, 343, 584	Pounds. 3,086 3,748 59,083 52,910 3,086 882 9,180,395	Pounds. 20, 743, 700 1 33, 154, 098 82, 054, 110 92, 154, 264 5, 602, 550 5, 515, 468

¹ Including cream.

² Preliminary.

TABLE 99.—Germany—EXPORTS of DAIRY PROD-UCTS.

[Auswärtiger Handel Deutschland and Bul. 103, Bureau of Statistics; (YB.).]

Year.	Butter.	Cheese.	Condensed milk.	Whole milk.
1897	$5,565,072 \\398,592 \\554,898 \\482,000 \\602,000$	Pounds. Not found. 2,562,627 1,858,257 2,178,806 1,812,000 1,603,000 172,841	Pounds. 6, 239, 018 6, 104, 537 10, 131, 901 10, 401, 964 1, 471, 791 1, 701, 951 524, 695	Pounds. 11, 890, 951 17, 254, 522 15, 744, 592 19, 113, 882 2, 273, 384 2, 228, 189

¹ Preliminary.

TABLE 100.-Hungary-Number of COWS and TOTAL CATTLE.

Year.	Cows.	Total cattle.	Year.	Cows.	Totalcattle.
1870	2,052,488	5,279,193	1904	2,500,000	7, 319, 121
1880	2,035,217	5,311,378	1909		7, 152, 568
1895	2,185,224	6,738,365	1913		1 6, 045, 000

[Various authorities; (YB.).]

1 And 162,000 buffaloes.

TABLE 101.—India—Number of CATTLE and BUFFALOES.

[Yearbook, U. S. Department of Agriculture.]

Year.	British	India.	Veen	Nati e States.		
rear.	Cattle.	Buffaloes.	Year.	Cattle:	Buffaloes.	
1894–5 1899–1900. 1904–5 1910–11 1913–14 1914–15 1915–16 1916–17 1917–18	$\begin{array}{c} 67,045,000\\72,666,000\\77,111,000\\94,664,000\\125,042,000\\128,310,000\\129,742,000\\130,087,000\\129,876,000\end{array}$	$\begin{array}{c} 11,826,000\\ 12,120,000\\ 12,871,000\\ 16,628,000\\ 18,235,000\\ 19,025,000\\ 19,206,000\\ 19,266,000\\ 19,235,000 \end{array}$	1900-1 1904-5 1909-10 1913-14. 1916-17 1917-18	7, 397, 000 8, 178, 000 10, 391, 000 12, 236, 000 12, 999, 000 12, 691, 000	$\begin{array}{c} 1,228,000\\ 1,347,000\\ 1,559,000\\ 1,765,000\\ 1,802,000\\ 1,863,000\end{array}$	

Young buffaloes are included under cattle and not under buffaloes. The heading "Buffaloes" means adult animals. Figures for the Native States are reported as "not complete."

TABLE 102.-Italy-Number of CATTLE, BUFFALOES, SHEEP, and GOATS.

[Annuario Statistico Italiano, Census Reports, and L'Italia Agricola; (YB.).]

Year.	Cattle.	Buffaloes.	Sheep.	Goats.
1881 ¹ ⁴	4,772,000 5,672,000	11,000	8,596,000	2,016,000
1908 ² . 1914.	6, 198, 861 6, 64	19,366 5,000		2,714,878 4,000
1918 3	6,239,741	24,026	11,753,910	3,082,558

¹ Census taken in 1881 was as of Feb. 13.

Census taken in 1908 was as of Mar. 10.
Census taken in 1918 was as of April.
Census taken in 1918 was as of April.
Prior to the census of 1908 the data were taken by sending schedules out to be filled in by the farmers.

TABLE 103.—Italy—IMPORTS and EXPORTS of DAIRY PRODUCTS.

Year.	Bu	tter.	Che	eese.	Condensed milk.		
1 ear.	Imports.	Exports.	Imports.	Exports.	Imports.	Exports.	
1912 1913 1914 1915 1916 1917 1918 1919	Pounds. 287,700 509,273 705,913 429,236 345,020 2,516,771 899,256 909,838 194,005 96,561 135,803 126,324 73,193 1,880,087 3,103,856	Pounds. 2,213,198 5,183,896 6,709,921 14,136,777 8,295,469 8,147,295,469 8,147,295,469 9,310,026 7,488,365 792,113 171,518 108,687 50,926 95,680	$\begin{array}{c} Pounds.\\ 12, 553, 433\\ 16, 512, 454\\ 17, 059, 195\\ 9, 352, 134\\ 14, 760, 900\\ 11, 915, 422\\ 10, 068, 629\\ 12, 354, 799\\ 9, 837, 807\\ 3, 471, 584\\ 252, 206\\ 9, 837, 807\\ 3, 471, 584\\ 252, 206\\ 9, 259\\ 746, 037\\ 11, 511, 308\\ 5, 893, 337\\ \end{array}$	$\begin{array}{c} Pounds.\\ 3,887,151\\ 5,368,862\\ 12,559,386\\ 26,051,097\\ 57,515,814\\ 67,504,856\\ 67,504,856\\ 67,2320,580\\ 66,003,526\\ 65,761,027\\ 39,322,568\\ 4,336,669\\ 9338,278\\ 1,821,441\\ 2,789,921\\ \end{array}$	Pounds, 574,960 834,832 954,592 1,214,955 1,335,106 959,001 2,064,828 7,210,144 27,383,341,632,727	Pounds. 6,615,123 6,629,012 7,183,689 5,728,653 9,998,522 11,575,032 6,906,791 646,389 157,408 279,543 404,985	

[Movimento Commerciale, Italy; (YB.).]

TABLE 104.—Japan—Number of COWS, TOTAL CAT-TLE, and MILK COWS.

[Japanese Yearbook.]

Year.	Native cows.	Grade cows.	Foreign breeds of cows.	Total cattle.	Milk cows.	Average yield.
1899 1900 1905 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919	685,106 676,600 560,295 569,441 567,973 560,564 580,907 605,244 580,907 605,244 580,907 605,244 580,770 587,859 612,871	70,002 82,715 171,278 322,857 338,278 340,193 331,919 321,137 307,969 301,170 295,626 298,086 304,739	$14,055\\15,343\\15,943\\18,404\\21,345\\20,870\\20,815\\14,625\\12,739\\12,191\\12,690\\14,918\\15,538$	$\begin{array}{c} 1,252,865\\ 1,261,214\\ 1,167,614\\ 1,384,183\\ 1,405,026\\ 1,399,498\\ 1,388,708\\ 1,388,708\\ 1,388,708\\ 1,387,233\\ 1,387,922\\ 1,342,990\\ 1,304,331\\ 1,307,120\\ 1,344,865\\ \end{array}$	41, 333 44, 060 41, 943 42, 281 43, 374 43, 645 44, 791 45, 739 42, 035 40, 343	Pounds. 2,581 2,515 2,732 2,705 2,722 2,861 2,871 3,091 3,339 3,303

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TABLE 105 .--- Japan--- Quantity of DAIRY PRODUCTS made in factories.

[Japanese Yearbook.]

Year.	Condensed milk.	Butter.	Artificial butter. ¹
1915 1916 1917 1918 1919	Pounds. 4, 863, 170 8, 520, 541 8, 271, 925 14, 405, 419 18, 852, 588	Pounds. 682,282 897,084 1,428,258 1,302,749 1,203,253	Pounds. 410, 793 481, 869 811, 687 750, 592 907, 704

¹ Principally vegetable.

TABLE 106.-Netherlands-Number of DAIRY COWS and TOTAL CATTLE.

[Jaarcijfers Kroninkrijk der Nederlanden, Rijk in Europe.]

Year.	Dairy cows.	Total cattle (YB.)	Year.	Dairy cows.	Total cattle(YB.)
1851 1861 1871 ¹ 1881 ¹ 1891 1900	911, 200 893, 900 897, 400 965, 800	$\begin{array}{c} 1,243,700\\ 1,335,300\\ 1,435,700\\ 1,434,400\\ 1,532,200\\ 1,655,600 \end{array}$	$\begin{array}{c} 1910. \\ 1913. \\ 1917^2. \\ 1918^3. \\ 1919^4. \\ 1920. \\ \end{array}$	$\begin{array}{c}1,068,361\\1,109,679\\1,234,375\\1,130,908\\1,232,264\end{array}$	2,026,943 2,096,599 2,301,532 2,048,872 1,968,609

¹ The number of dairy cows shown for 1871 and 1881 are the averages for the 10-year periods beginning on those dates. ³ Number in April. ³ Number in August. ⁴ Number in March.

TABLE 107 .- Netherlands-PRODUCTION and CON-SUMPTION of FACTORY BUTTER.

[Commerce Reports, No. 245, Oct. 18, 1920.]

	191	6.	1917.		
Month.	Production.	Consump- tion.	Production.	Consump- tion.	
January February March A pril May June July August September October Dovember December	10,582,080 9,038,860	$\begin{array}{c} Pounds.\\ 3,963,280\\ 4,188,740\\ 4,409,200\\ 6,613,800\\ 6,393,340\\ 8,157,020\\ 6,613,800\\ 6,172,880\\ 5,952,420\\ 4,409,200 \end{array}$	$\begin{array}{c} Pounds,\\ 5,731,960\\ 5,731,960\\ 9,700,240\\ 9,259,320\\ 11,243,460\\ 15,432,200\\ 11,023,000\\ 13,227,600\\ 9,920,700\\ 8,597,940\\ 7,716,100\\ 7,716,100\\ 5,070,580\end{array}$	$\begin{array}{c} \hline Pounds. \\ 4, 629, 660 \\ 5, 070, 580 \\ 4, 409, 200 \\ 3, 747, 820 \\ 4, 188, 740 \\ 7, 054, 720 \\ 6, 393, 340 \\ 10, 141, 160 \\ 6, 834, 260 \\ 6, 393, 340 \\ 3, 086, 440 \\ 1, 984, 140 \end{array}$	
Total	131, 173, 700	65, 035, 700	112, 655, 060	63, 933, 400	

TABLE 107.—Netherlands—PRODUCTION and CON-SUMPTION of FACTORY BUTTER—Continued.

	-						
	19	18.	191	9.			
Month.	Production. Consump- tion.		Production.	Consump-			
January. February. March. April. May	Pounds. 3,747,820 3,086,440 4,629,660 5,731,960 8,818,400 14,109,440 10,582,080 12,786,680 9,038,860 8,818,400 6,172,880 95,900,100	$\begin{array}{c} Pounds,\\ 3,086,440\\ 3,527,360\\ 4,409,200\\ 5,291,040\\ 7,716,100\\ 7,936,560\\ 8,377,480\\ 6,333,340\\ 6,613,800\\ 5,291,040\\ 2,865,980\\ -2,865,980\\ -64,815,240\\ \end{array}$					
			1920.				
	Month.		Production.	Consump- tion.			
January February March. April May June. June. July August. Total			Pounds. 5,070,580 3,968,280 5,952,420 7,495,640 10,361,620 13,668,520 10,141,160 12,566,220	Pounds. 3, 306, 900 4, 188, 740 5, 731, 960 5, 191, 040 5, 511, 500 9, 920, 700 7, 716, 100 			

Extract from consular report: "Despite constantly increasing production, consumption thus far during the current year (1920) has amounted to 71 per cent of the output; in the full year 1919, it was 67.6 per cent; in 1918, 66.1 per cent; in 1917, 56.8 per cent; and in 1916, only 49.6 per cent. Production in 1920 has been at the rate of 103,836,660 pounds, and consumption at the rate of 74,294,560 pounds for the entire year."

,

TABLE 108.—Netherlands—IMPORTS and EXPORTS of BUTTER and CHEESE.

Veen	Bu	itter.	Cheese.		
Year.	Imports. Exports.		Imports.	Exports.	
1850. 1860. 1870. 1880. 1900. 1910. 1911. 1912. 1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920.	$\begin{array}{c} 1,572,043\\6,861,284\\2,759,718\\8,834,868\\1,634,102\\4,491,879\\6,038,399\\4,636,273\\5,529,137\\3,880,444\\904,693\\992,070\\-52,339\end{array}$	$\begin{array}{c} Pounds.\\ 26, 491, 049\\ 39, 331, 100\\ 147, 865, 455\\ 79, 479, 604\\ 87, 203, 279\\ 49, 762, 641\\ 72, 456, 276\\ 66, 512, 782\\ 86, 307, 885\\ 81, 702, 476\\ 81, 406, 799\\ 93, 351, 626\\ 78, 997, 431\\ 54, 214, 930\\ 5, 415, 259\\ 30, 242, 048\\ 45, 575, 696\end{array}$	$\begin{array}{c} Pounds.\\ 287,023\\611,563\\512,230\\635,187\\655,001\\578,990\\676,724\\649,709\\652,996\\663,397\\2,027,819\\339,559\\\hline10,163\\730\\42,370\\488,705\\\end{array}$	Pounds. 49, 184, 300 61, 021, 134 64, 445, 875 61, 857, 233 66, 832, 431 101, 208, 865 122, 771, 456 131, 107, 075 145, 336, 751 149, 573, 571 149, 573, 571 199, 108, 449 123, 633, 961 32, 893, 251 27, 371, 522 99, 737, 645	

[Statistick van den in-uit-en doorvoer; (YB.).]

¹ Oleomargarin and butter reported together from 1870 to 1889.

TABLE 109.—New Zealand—Number of DAIRY COWS and TOTAL CATTLE.

[N	ew	Zeal	land	Ye	arbool	c and	Statistical	Abstract;	(YB	3.)	-1	
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Year.	Dairy cows.	Total cattle.	Year.	Dairy cows.	Total cattle.
1864 1871 1874 1881 1885 1890	372, 416	$193,285\\249,760\\436,592\\494,917\\698,637\\853,358\\831,831\\1,047,901\\1,256,680$	1905	$\begin{array}{r} 633,733\\536,629\\732,931\\777,439\end{array}$	$\begin{array}{c} 1,810,936\\ 2,020,171\\ 2,417,191\\ 2,575,230\\ 2,869,465\\ 3,035,478\\ 3,059,445\\ 3,112,742\\ \end{array}$

¹ Number on June 20.

TABLE 110.-New Zealand-EXPORTS of DAIRY PRODUCTS.

[Trade and Navigation Reports, Abstract of Statistics of New Zealand, and 1915 Yearbook of New Zealand; (YB.).]

Year ended			Condensed	
June 30-	Butter.	Cheese.	milk.	Casein.
	Pounds.	Pounds.	Pounds.	Pounds.
1866		1,456		None.
1870. 1880.	384,720 304,304	306,320 80,304		
1890	3,899,392	4, 530, 512		
1900	19, 329, 296	11, 519, 088		
1910	39,931,920	50,614,480		
1911. 1912.	$33,867,344 \\ 42,349,104$	49,187,488 64,631,840		
1913	41, 692, 896	68, 506, 256		
1914	48,615,504	96, 742, 912		
1915	47,056,128	91,532,896	1,175,106	
1916. 1917.	40,166,784 28,492,464	106, 334, 592 99, 203, 216	984,038 4,105,849	
1918	48, 274, 576	98,944,160	7,061,830	
1919	38,731,602	176,098,832	2,146,438	
1920 ¹ 1921 ¹	30, 334, 080 71, 531, 040	161,381,360 160,911,484		•••••
+021	11,001,010	100, 511, 101		•••••

¹ Year ended July 31.

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TABLE 111.—Norway—Number of COWS, TOTAL CAT-TLE, and REINDEER.

[]	Norges (Jord	brug,	and	Stati	istisk	Aar	bok;	(YB.).]	1
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Year.	Cows.	Total cattle.	Reindeer.
1845. 1855. 1865. 1875. 1870. 1890. 1900. 1900. 1907. 1910. 1914. 1915. 1917. 19	741, 598 706, 925 689, 563 727, 898 755, 483	842, 568 949, 935 953, 036 1, 016, 617 1, 006, 499 950, 201 1, 039, 000 1, 134, 613 1, 146, 000	90, 273 116, 891 101, 768 96, 567 170, 134 109, 000 142, 623 (?) (2)
1915. 1916. 1918. 1919.	782,000	1, 121, 000 1, 126, 000 1, 085, 707 1, 053, 743	(2) (2) (2)

Beginning with 1907 figures are for Sept. 30; prior to that, December.
 Not officially reported after 1907.

TABLE 112.-Roumania-Number of DAIRY COWS and TOTAL CATTLE.

[Estatisti	.cal Agr	ricola a	Romani	.ei; (YB.).]
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Year.	Dairy cows.	Total cattle.	Year.	Dairy cows.	Total cattle.
1888 1890 1896 1900		2, 376, 056 2, 406, 071 2, 520, 380 2, 138, 315 1 2, 588, 526 1 2, 585, 205	1916 1917 1918 1919		1, 125, 000

¹ Including buffaloes. In 1900 there were 25,750 cow buffaloes, 10,482 young buffaloes, and 7,243 other buffaloes in Roumania.

TABLE 113.-Russia-TOTAL CATTLE in European Russia (including Poland).

[Report 109, U. S. Dept. of Agric., and Statistical Abstract of Great Britain; (YB.].

· Year.	Total cattle.	Year.	Total cattle.
1860	27,177,000 28,541,400 34,483,900	1911 1	34,571,750 37,165,255 32,704,000 32,886,000

¹ Includes northern Caucasia.

² U. S. Dept. of Agric., Bulletin 987.

There are no available figures on the number of cows or dairy cows in Russia.

Siberia in 1914 had 17,334,000 cattle.

The number of reindeer in Russia in 1913 was 605,000.

TABLE 114.—Russia (including Siberia)—Production of DAIRY PRODUCTS.

[Reports of railroads; Enquête sur l'Industrie, Paris.]

Year.	Butter.	Milk and cream.	Other dairy products.
1901–1904 ¹	275, 286, 240 306, 414, 650 326, 253, 150	Pounds. 122, 421, 580 154, 920, 065 238, 639, 120 442, 939, 600 525, 972, 740	Pounds. 60, 128, 690 71, 923, 580 97, 713, 630 113, 728, 710 124, 549, 710

 Yearly average.
 From Russian Chamber of Commerce at Paris (Int. Rev. of the Sci. and Prac. of Agric., Rome, July, August, September, 1919, p. 1000).

TABLE 115.—Russia (including Siberia)—EXPORTS of BUTTER and CHEESE.

Year.	Butter exports.	Cheese exports. ¹	Year.	Butter exports.	Cheese exports.1
1860-1870 2 1871-1875 2 1876-1880 2 1885-1888 2 1894-1898 2 1900 1910 1911 1912	5,875,803 6,694,592 11,650,610 14,896,910 42,923,300 124,365,658	Pounds. 216,420 36,070 1,089,314 1,861,212 1,410,337 1,490,047 1,423,675 2,102,162 2,088,764		Pounds. 172,003,064 118,996,623 119,358,799 3 21,668 21,668	

[Russian Commerce Reports; (YB.).]

¹ Not including "curd."

² Average annual export.

³ Preliminary figures. ⁴ European frontier only. Figures from U. S. War Trade Board.

TABLE 116.—South Africa (British)—Production of BUTTER and CHEESE.

[Reports of Secretary of Agriculture, South Africa.]

Year.	Butter.	Cheese.	Year.	Butter.	Cheese.
1913 1914 1915 1916	Pounds. 10,741,000 10,682,000 13,500,000	Pounds. 520, 849 605, 686 1, 098, 184	1917 1918 1919	Pounds. 16,013,557 1 17,935,680 1 21,748,160	Pounds. 1 8,522,685

¹ Preliminary figures.

TABLE 117 .- Spain-Number of CATTLE and GOATS.

[Various sources.]

Year.	Total cattle(YB).	Total goats.	Year.	Total cattle(YB).	Total goats.
1865 1891 1905 1906 1910 1911 1912 1913	2,368,767 2,541,112	2,534,000 2,440,000 3,216,489 3,369,624 3,116,226 3,394,000	1914 1915 1916 1917 1918 1919 1920 ¹	2,743,000 2,926,170 3,070,903 3,233,000 3,712,000 3,173,577 3,396,573	3,265,000 3,216,682 3,207,360 4,182,003 4,476,000 3,685,808 3,790,656

¹ Milk cows, 228,659.

TABLE 118.—Sweden—Number of COWS and TOTAL CATTLE.

Year.	Cows.	Total cattle(YB).	Year.	Cows.	Total cattle(YB).
1865 1870 1880 1890 1900 1910 1911	$\begin{array}{c} 1, 185, 556\\ 1, 231, 477\\ 1, 409, 236\\ 1, 578, 927\\ 1, 764, 819\\ 1, 861, 219\\ 1, 837, 035 \end{array}$	$\begin{array}{c} 1,924,354\\ 1,965,900\\ 2,227,757\\ 2,399,491\\ 2,582,555\\ 2,747,526\\ 2,689,609 \end{array}$	1913 1914 1915 1916 ¹ 1917 ¹ 1918 ¹ 1919 ¹	$\begin{array}{c} 1,841,991\\ 1,845,989\\ 1,841,508\\ 1,769,689\\ 1,775,353\\ 1,634,982\\ 1,607,060 \end{array}$	$\begin{array}{c} 2,720,741\\ 2,761,000\\ 2,883,884\\ 2,913,159\\ 3,020,381\\ 2,584,159\\ 2,550,828 \end{array}$

[Statistik Arsbok and Statistik Tidskrift.]

¹ June 1.

The number of reindeer in Sweden in 1918 was 275,084.

TABLE 119.—Sweden—DAIRY PRODUCTS in factories. [Statistik Arsbok.]

Year.	Milk delivered to dairies. ¹	Number of butter factories.	Butter made.	Cheese made.
1890	2,533,570,352 2,879,401,605 2,766,911,890 2,376,434,915	$\begin{array}{c} 1,562\\ 1,793\\ 1,688\\ 1,575\\ 1,416\\ 1,650\\ 1,627\\ 1,663\\ 1,698\\ 1,762\\ 1,495\\ 1,450\end{array}$	Pounds. 35, 479, 510 54, 933, 356 62, 727, 497 72, 616, 094 70, 339, 968 72, 615, 115 60, 597, 840 62, 264, 518 45, 551, 450 22, 454, 739 27, 409, 792	$\begin{array}{c} Pounds.\\ 14,538,412\\ 15,243,652\\ 16,392,215\\ 22,345,956\\ 32,138,659\\ 22,345,956\\ 32,138,659\\ 22,345,956\\ 32,138,659\\ 23,505,478\\ 24,127,142\\ 25,55,478\\ 22,630,219\\ 11,798,815\\ 17,603,731\\ \end{array}$

The term "dairies" is used throughout Europe for factories which receive milk and cream for any purpose; but generally it refers to butter and cheese factories.

TABLE 120.—Sweden—IMPORTS and EXPORTS of BUTTER and CHEESE.

[Swedish Commerce Reports, Bidrag till Sveriges Officiala; (YB.).]

Year.	But	ter.	Cheese.		
rear.	Imports.	Exports.	Imports.	Exports.	
1861-1865 ¹	Pounds. 2,352,000	Pounds. 369,600	Pounds.	Pounds.	
1871–1875 ¹ 1881–1885 ¹ 189 0	3,348,000 5,992,000 3,920,000 3,920,000	6,955,000 17,684,000 33,163,200	430,080	316,960	
1900 1910 1911 1912	1,096,678 205,352 343,029 273,000	$\begin{array}{r} 42,246,271\\ 47,949,356\\ 48,888,521\\ 46,818,477\end{array}$	710,593707,677742,9501,258,827	9,160 51,588 6,393 11,971	
1913. 1914. 1915.	432,071 188,879 29,848	43,329,909 41,941,296 41,532,093	1,213,758 764,864 1,148,233	6,045 69,196 627,978	
1916. 1917. 1918.	61,059 15,756,261 11,425,615	28,703,513 3,117 3,302	285,8551,208,363423,715	992 699 172	
1919. 1920 ²	13, 846, 436 16, 940, 874	76, 233 53, 417	3,575,885 5,511,985	12,284	

4

¹ Average. ² Preliminary figures.

TABLE 121.-Switzerland-Number of DAIRY COWS, TOTAL CATTLE, and GOATS.

[Statistisches Jahrbueh der Schweiz; also Recensement Fédéral du Bétail; (YB.).]

У	Tear.		Dairy cows.	Total cattle.	Goats.
1876. 1886. 1896. 1901. 1908. 1911. 1912.		· · · · · · · · · · · · · · · · · · ·	$\begin{array}{c} 553, 205\\ 592, 413\\ 663, 102\\ 688, 052\\ 739, 922\\ 785, 950\\ 796, 909 \end{array}$		375, 482 396, 001 416, 323 415, 817 354, 634 362, 117 341, 296
1913		•• •••			
1915. 1916. 1917. 1918. 1918.			848,011	1,615,893 1,520,165 1,005,000 1,382,116	358,093 356,455 349,794 333,852

1.On April 21.

TABLE 122.—Switzerland—PRODUCTION of MILK as estimated officially.

[Swiss Yearbook.]

Year.	Cows' milk.	Goats' milk.	Total milk.
1911	5,798,098,000	Pounds. 209, 437, 000 209, 437, 000 209, 437, 000 220, 460, 000 220, 460, 000 220, 460, 000 220, 460, 000 220, 460, 000	Pounds. 5, 445, 362, 000 5, 754, 006, 000 6, 018, 558, 000 6, 106, 742, 000 5, 731, 960, 000 5, 643, 776, 000 4, 806, 028, 000 4, 188, 740, 000

These estimates were made in terms of million quintals, to the nearest tenth; hence quantities are not exact and can be considered only as generally representative.

TABLE 123.—Switzerland—DAIRY PRODUCTS manufactured.

[Swiss Yearbook.]

Year.	Cheese.	Butter.	Condensed milk.
1911	180, 556, 740 174, 824, 780 127, 425, 880 110, 891, 380	Pounds. 31, 525, 780 35, 494, 060 37, 257, 740 36, 596, 360 37, 037, 280 30, 864, 400 28, 880, 260	$\begin{array}{c} Pounds.\\ 99, 207, 000\\ 99, 207, 000\\ 88, 144, 000\\ 121, 253, 000\\ 110, 230, 000\\ 99, 207, 000\\ 66, 138, 000\\ 55, 115, 000 \end{array}$

TABLE 124.—Switzerland—Per capita CONSUMPTION of DAIRY PRODUCTS.

[Swiss Yearbook.]

Year.	Cheese.	Butter.	Con- densed milk.	Whole milk.
1911 1912 1913 1914 1915 1916 1917 1918	$\begin{array}{c} Pounds.\\ 22.0\\ 28.9\\ 28.2\\ 26.4\\ 15.0\\ 17.4\\ 14.8\\ 16.1 \end{array}$	$\begin{array}{c} Pounds. \\ 11.5 \\ 11.2 \\ 12.6 \\ 12.1 \\ 11.0 \\ 9.9 \\ 8.2 \\ 7.5 \end{array}$	Pounds. 13.2 8.8 22.0 15.4 13.2 11.0	Gallons. 64.3 64.3 67.2 67.4 67.7 71.8 67.5 51.3

TABLE 125.—Switzerland—IMPORTS of DAIRY PRODUCTS.

Year.	Fresh milk.	Butter.	Cheese.	Condensed , milk.
1885	Pounds. 246,033 12,996,117 16,037,865 20,110,802 23,858,181 25,994,659 27,649,211 19,270,850 15,510,463 9,773,653 7,655,474 7,189,201 6,225,570	$\begin{array}{c} Pounds.\\ 2, 621, 931\\ 3, 556, 681\\ 11, 062, 683\\ 12, 007, 742\\ 11, 930, 925\\ 11, 155, 906\\ 8, 900, 411\\ 5, 699, 773\\ 946, 214\\ 369, 491\\ 54, 454\\ 13, 250, 307\\ 18, 253, 647\\ \end{array}$	$\begin{array}{c} Pounds.\\ 2,854,957\\ 3,182,561\\ 5,171,991\\ 6,308,683\\ 7,643,789\\ 7,995,202\\ 7,763,058\\ 4,717,403\\ 3,409,854\\ 427,251\\ 213,658\\ 86,640\\ 995,817\\ 4,368,000\end{array}$	Pounds.

[Swiss Commerce Reports, (YB.).]

TABLE 126.—Switzerland—EXPORTS of DAIRY PRODUCTS.

Year.	Fresh milk.	Butter.	Cheese.	Condensed milk.
1900 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1919 1920	$\begin{array}{c} Pounds.\\ 8, 959, 274\\ 31, 063, 475\\ 33, 598, 986\\ 35, 603, 408\\ 39, 942, 502\\ 37, 642, 884\\ 41, 109, 124\\ 34, 942, 689\\ 23, 062, 325\\ 20, 739, 113\\ 20, 562, 084\\ \end{array}$	Pounds. 217, 594 172, 400 193, 343 203, 705 192, 682 217, 374 148, 370 2, 646 220 	Pounds. 60, 265, 166 63, 391, 549 66, 593, 470 66, 435, 401 77, 549, 552 77, 572, 599 74, 774, 961 47, 214, 815 12, 861, 416 2, 680, 353 1, 369, 056	$\begin{array}{c} Pounds.\\ 62, 387, 094\\ 63, 586, 876\\ 85, 975, 873\\ 91, 978, 558\\ 83, 415, 269\\ 100, 070, 762\\ 96, 300, 455\\ 76, 300, 455\\ 76, 300, 455\\ 187, 886, 642\\ 43, 820, 394\\ 22, 045, 559\end{array}$

¹ Figures for condensed milk for 1917 taken from Swiss Yearbook.

TABLE 127.—United Kingdom of Great Britain and Ireland—Number of COWS and TOTAL CATTLE in the United Kingdom, including the Channel Islands and the Isle of Man.

[British Statistical Abstract, and Board of Agriculture and Fisheries of England; (YB.).]

Year (June).	Cows.	Total cattle.	Year (June).	Cows.	Total cattle.
1875 1880 1890 1910 1911 1912 1913	$\begin{array}{c} 3, 783, 607\\ 3, 639, 755\\ 3, 956, 321\\ 4, 096, 682\\ 4, 342, 186\\ 4, 407, 800\\ 4, 400, 816\\ 4, 317, 957 \end{array}$	$\begin{array}{c} 10, 128, 112\\ 9, 833, 563\\ 10, 789, 421\\ 11, 455, 009\\ 11, 765, 453\\ 11, 866, 111\\ 11, 914, 635\\ 11, 936, 600 \end{array}$	1914 1915 1916 1917 1918 1919 1920	$\begin{array}{c} 4,595,128\\ 4,494,740\\ 4,499,321\\ 4,514,803\\ 4,603,841\\ 4,587,805\\ 4,381,794 \end{array}$	$\begin{array}{c} 12,184,505\\12,171,452\\12,451,540\\12,382,236\\12,311,149\\12,491,427\\11,770,274\end{array}$

TABLE 128.—United Kingdom—Number and kinds of CATTLE on the Islands of Jersey and Guernsey, June, 1920.

[Agricultural Statistics, 1920, Vol. LV, Part I.]

	2	
Classification.	Jersey.	Guernsey.
Cows in milk. Cows in calf, not milk. Heifers in calf.	1,000	2,837 201 327
Total cows. Bulls being used Other cattle, 2 years old and above Other cattle, 1 year and under 2 years	6,283 126 190 1,674	3,365 89 422 1,045
Other cattle, under 1 year	2,250	1, 333 6, 254

TABLE 129.—United Kingdom—MILK PRODUCTION in Great Britain (England, Scotland, and Wales). Winister of Agriculture and Eicherice, Part III, 1997.

[M:	inister	of 1	\gricul	ture a	id Fi	sheries,	Part.	Ш,	1919.]	J
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Year.	Annual yield per cow.	Annual produc- tion, less milk for calves.	Year.	Annual yield per cow.	Annual produc- tion, less milk for calves.
1909–1913 1914 1915 1916	Imperial gallons. 560 575 550 525	Million gallons. 1,231 1,253 1,241 1,164	1917 1918 1919	Imperial gallons. 495 436 470	Million gallons. 1,086 955 1,085

One imperial gallon (British) equals 1.2 U.S. gallons, or 10.32 pounds.

TABLE 130.—United Kingdom—CONSUMPTION of DAIRY PRODUCTS in 1919.

Product.	Total consumption.	Home production.	Importation.
Butter Cheese	Pounds. 403, 200, 000 324, 800, 000	Pounds. 233, 856, 000 97, 440, 000	Pounds. 169, 344, 000 227, 360, 000

[Estimates, Minister for Food in National Food Journal, London, Mar. 10, 1920.]

TABLE 131.—United Kingdom—Average ANNUAL CON-SUMPTION of DAIRY PRODUCTS and MAR-GARIN from 1909 to 1913.

[Estimates in British Food Journal, July-October, 1919.]

Product.	Total consumption.	Home production.	Importation.
Butter Cheese Margarin. Margarin (1918)	264, 320, 000	Pounds. 282,056,320 89,541,760 134,274,560 535,391,360	Pounds. 466, 103, 680 264, 388, 240 130, 045, 440 33, 568, 640

TABLE 132.—United Kingdom—Average ANNUAL CON-SUMPTION of DAIRY PRODUCTS and MAR-GARIN from 1909 to 1913.

[The Feeding of Nations, by E. H. Starling.]

Product.	Home produc- tion and importation.	Per capita consump- tion.		
Milk and cream Butter Cheese Condensed and evaporated milk Margarin		Pounds. 216 1 15.38 1 7.04 2.64 5.46		

¹ The per capita consumption of butter and of cheese as shown in this table is much less than that shown in Tables 4 and 5. This table is based on the average for 5 years, 1909 to 1913, while the figures in Tables 4 and 5 are based on a single year. There was a decrease in imports and in production during this period, hence a decrease in consumption.

Dairy products were estimated from 1908 census, and per capita consumption was obtained by using 46 million as average population for the period.

TABLE 133.-United Kingdom-IMPORTS and EXPORTS of BUTTER.

Year.	General imports.	Domestic exports.	Year.	General imports.	Domestic exports.
1850 1860 1870 1880 1890 1900 1910 1911 1911	$\begin{array}{c} 129,831,520\\ 1260,546,160\\ 227,104,304\\ 378,363,792\\ 484,460,368\\ 481,901,504 \end{array}$	$\begin{array}{r} Pounds.\\ 6,791,568\\ 14,039,424\\ 6,443,136\\ 3,517,696\\ 2,745,120\\ 1,177,120\\ 1,035,328\\ 1,335,936\\ 1,270,304 \end{array}$	1913 1914 1915 1916 1917 1918 1919 1920 1921	431, 631, 760 243, 646, 480 202, 329, 792	$\begin{array}{c} Pounds.\\ 1,220,240\\ 1,222,256\\ 1,178,352\\ 979,664\\ 264,208\\ 197,232\\ 252,752\\ 362,544\\ 1,103,200\\ \end{array}$

[Trade and Navigation Reports; (YB.).]

¹ Including margarin for 1880. ² Preliminary figures.

TABLE 134.—United Kingdom—IMPORTS and EXPORTS of CHEESE.

[Trade and Navigation Reports; (YB.).]

Year.	General imports.	Domestic exports.	Year.	General imports.	Domestic exports.
1850 1860 1870 1890 1900 1910 1911 1912	$\begin{array}{c} 116, 623, 472\\ 198, 911, 664\\ 240, 136, 288\\ 303, 058, 336\end{array}$	$\begin{array}{c} Pounds.\\ 968,016\\ 3,214,400\\ 2,821,728\\ 1,333,136\\ 1,367,632\\ 1,046,600\\ 911,008\\ 949,088\\ 956,704 \end{array}$	1913 1914 1915 1916 1917 1918 1919 1920 1921		$\begin{array}{c} Pounds.\\ 995,680\\ 804,832\\ 824,880\\ 985,824\\ 212,240\\ 70,448\\ 110,203\\ 454,048\\ 479,808 \end{array}$

¹ Preliminary figures.

TABLE 135.-United Kingdom-IMPORTS and EX-PORTS of CONDENSED AND EVAPORATED MILK.

(Commerce and Trade Reports.)

Year.	Imports.	Exports.	Year.	Imports.	Exports.
1888 1890 1900 1910 1911 1912 1913 1914	106, 974, 000 124, 236, 560 132, 082, 832	Pounds. 6,886,992 23,458,064 49,194,432 51,151,520 52,651,424 50,676,304 7,146,960	1919 1920		Pounds. 37, 628, 192 35, 207, 312 14, 271, 264 320, 720 1, 437, 296 6, 233, 936 14, 205, 936

¹ Preliminary figures.

Prior to 1888 condensed milk was included in "Other dairy products."

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