

Attention is directed to the relationship of the figures for the number of cows kept for milk and the number of cows milked for the three censuses where these contrasts can be made. In 1940, the number of cows kept mainly for milk production exceeds the number of cows milked by 2,137,868. For the other two years, the number of cows milked exceeds the number kept for milk, the differences being 625,266 for 1930, and 3,254,780 for 1925. It should be remembered that the totals for the number of cows milked include some cows which were of dual-purpose type and some which were kept mainly for beef production. As stated previously, this total was secured in the 1930 Census only, and for that Census the number of beef and of dual-purpose cows milked was 3,371,597. A comparison of all these data indicates that dairy herds were expanding rapidly at the time of the 1940 census, or that farmers had been replacing beef with dairy-type cows, or that they were possibly keeping cows of identical type conformation, but for a different purpose. The interpretation placed upon each question, by the enumerators, in each of the censuses, if known, would throw additional light on which of these indications prevailed. To indicate more clearly in which size herds the potential increases in milk production would come, and in which geographic areas such increases would occur, reference should be made to tables 12 and 13 and to the series of maps presented.

In chapter VII of volume III of the 1940 Reports for the Census of Agriculture, it is stated that some enumerators erroneously distributed "all cattle" into the two classes, viz. cows kept for milk and cows kept for beef, but that replies to correspondence indicated the enumerators reported the true number of cows kept for milk. This reference also states that making the necessary adjustments on numbers "kept for beef" offered considerable difficulty, but was accomplished in a fairly satisfactory manner.

Values and income.—The 1940 values for livestock and livestock products are calculated figures derived by multiplying numbers or production by unit prices. The latter were obtained jointly by the Bureau of the Census and the United States Department of Agriculture.

The figures for farm income for the calendar year 1939, shown in this report, were enumerated, i. e., they were secured by enumerators from the operators in response to 10 separate questions. These questions, in the order of their appearance on the schedule, were as follows:

- Value of all dairy products sold or traded in 1939.
- Value of all livestock sold or traded in 1939, except poultry, bees, and fur animals.
- Value of all poultry, eggs, baby chicks, poult, etc., sold or traded in 1939.
- Value of wool, mohair, meat, hides, etc., bees, honey, wax, and fur animals and pelts sold or traded in 1939.
- Value of the crops reported under Questions 87-142 (including landlord's share) which were or are to be sold or traded. (Crops used in this question refer to field crops harvested in 1939.)
- Value of vegetables harvested in 1939 FOR SALE.
- Horticultural specialties, sales in 1939.
- Value of all fruits and nuts, including small fruits, produced in 1939, that were or are to be sold or traded.
- Value (estimated) of products of this farm in 1939 that were used by your family and by all households on this farm.
- Value of forest products sold in 1939.

The first of the questions which related to the value of dairy products called for the value of all dairy products (other than goat milk and goat cheese) sold or traded in 1939. The question specified milk, cream, butter, and cheese, and the enumerator was instructed to include the sale of by-products, such as buttermilk or skim milk.

Dairy animals sold alive were included under the second income question, although the proceeds could reasonably be considered as dairy income.

The 10 questions given above relating to sales of farm products and the value of products used on the farms by farm households furnished the basis for classifying the farms by major source of income. The basis for this classification was the largest value reported for any of the individual questions. This method of classification, although not wholly satisfactory, points out areas of intensive production.

TABLE 1.—HISTORY OF ENUMERATION OF CATTLE AND DAIRY PRODUCTS—
FACSIMILE COPIES OF PORTIONS OF SCHEDULES DEVOTED TO THESE
ITEMS: CENSUSES OF 1940 TO 1940

(Figures in italics are United States totals)

CENSUS OF 1940 (APR. 1)		
53. Cattle and calves over 3 months old, Apr. 1, 1940..... Number..60,674,796		
Of this number, how many were--		
54. Cows and heifers that were 2 years old and over on January 1, 1940, and are--		
(a) Kept mainly for milk production?.....		Number..24,074,424
(b) Kept mainly for beef production?.....		Number..9,446,764
Cows milked and dairy products, 1939:		
55. Total cows milked during any part of 1939 (include heifers milked)..... Number..21,996,556		
56. Milk produced in 1939 (report in gallons: 8.6 pounds = 1 gallon)..... Gallons..11,508,245,769		
Report all milk produced, whether consumed, sold, fed to stock, or otherwise disposed of.		
57. Butter churned on farm in 1939..... Pounds..428,692,359		
58. Whole milk sold in 1939 Gallons...5,379,407,901	59. Cream sold in 1939 (Butterfat content) Pounds of butterfat...1,090,261,486	60. Butter sold in 1939 Pounds..76,558,256
61. Value of all dairy products sold or traded in 1939-- milk, cream, butter, cheese, etc. (Omit cents)..... \$..1,118,192,799		
CENSUS OF 1935 (JAN. 1)		
61. Total cattle and calves, of all ages, Jan. 1, 1935..... Number..68,284,409		
Of the total number, how many are:		
62. Calves under 1 year of age?..... Number..16,116,819		
63. Heifers 1 year old and under 2 years?..... Number..8,298,915		
64. Steers and bulls 1 year old and over?..... Number..6,998,095		
65. Cows and heifers 2 years old and over?..... Number..36,950,584		
Cows milked and milk and butter produced on farm in 1934:		
66. Total cows and heifers of all kinds milked during all or any part of 1934..... Number..24,581,669		
67. Milk produced in 1934 (report in gallons: 8.6 pounds equal 1 gallon)..... Gallons..10,666,066,473		
Report all milk produced, whether consumed, sold, fed to stock, or otherwise disposed of.		
68. Butter churned on this farm in 1934..... Pounds..558,648,652		
CENSUS OF 1930 (APR. 1)		
Cattle, April 1, 1930:		
74. Calves born since January 1, 1930..... Number..9,645,526		
75. Steers and bulls born in 1929 (yearlings)..... Number..6,512,891		
76. Heifers born in 1929 (yearlings)..... Number..8,744,021		
77. Bulls born before 1929..... Number..1,262,516		
78. Steers born in 1928 (2-year olds)..... Number..2,610,249		
79. Steers born before 1928..... Number..1,155,762		
80. Heifers born in 1928, being kept mainly for milk cows (2-year olds)..... Number..5,759,401		
81. Heifers born in 1928, being kept mainly for beef cows or beef production (2-year olds)..... Number..2,085,911		
82. Cows and heifers born before 1928, kept mainly for milk production..... Number..20,498,965		
83. Cows and heifers born before 1928, kept mainly for beef production..... Number..7,856,994		
Cows milked and milk and butter produced on this farm in 1929:		
84. Total number of cows and heifers (both beef and dairy) milked during all or any part of 1929..... Number..21,124,221		
85. Of the cows and heifers milked, how many were mainly of beef or of dual-purpose breeding?..... Number..3,371,597		
86. Milk produced in 1929 (8.6 lbs. equal 1 gal.)..... Gallons..11,052,025,367		
Report all milk produced, whether consumed, sold, fed to stock, or otherwise disposed of. This quantity must be sufficient to cover products reported under Questions 87 to 90.		
87. Butter churned in 1929..... Pounds..542,064,289		
Dairy products sold in 1929:		
	Quantity sold in 1929	Received from sales in 1929
88. Milk sold as whole milk.....	Gals..4,455,650,767	\$..... ⁽¹⁾ (Omit cents)
89. Cream sold as butterfat.....	Lbs..1,179,908,874 (Butterfat)	\$..... ⁽¹⁾ (Omit cents)
90. Cream sold not as butterfat.....	Gals..15,846,164	\$..... ⁽¹⁾ (Omit cents)
91. Butter sold (churned on this farm)....	Lbs..155,045,368	\$..... ⁽¹⁾ (Omit cents)
92. Number of cows and heifers that are being milked daily at present time..... Number..16,696,699		
93. Daily production of milk at present time..... Gallons..36,528,207		

¹Not available.

COWS MILKED AND DAIRY PRODUCTS

TABLE 1.—HISTORY OF ENUMERATION OF CATTLE AND DAIRY PRODUCTS—FACSIMILE COPIES OF PORTIONS OF SCHEDULES DEVOTED TO THESE ITEMS: CENSUSES OF 1840 TO 1940—Continued

CENSUS OF 1925 (JAN. 1)	
Beef cattle on this farm Jan. 1, 1925 (cattle kept mainly for beef production):	
122. Calves under 1 year of age.....	Number ¹ 12,952,145
123. Heifers 1 year old and under 2 years.....	Number 5,872,907
124. Cows and heifers 2 years old and over.....	Number 14,908,978
125. Steers 1 year old and over.....	Number 6,905,472
Include both steers born of beef cows and steers born of dairy cows.	
126. Bulls 1 year old and over.....	Number ² 1,408,800
Dairy cattle on this farm Jan. 1, 1925 (cattle kept mainly for milk production):	
Report all steers under beef cattle, Question 125.	
127. Dairy bulls 1 year old and over.....	Number (3)
128. Dairy calves under 1 year of age.....	Number (3)
129. Dairy heifers 1 year old and under 2 years.....	Number 5,069,197
130. Dairy cows and heifers 2 years old and over.....	Number 17,644,867
Dairy products in 1924:	
131. Total amount of milk produced in 1924.....	Gals. ⁴ 9,198,303,635
Include all milk produced, whether sold, consumed on farm, fed to animals, or otherwise disposed of. 100 pounds equal 11.6 gallons.	
132. Total number of cows milked on this farm during all or any part of the year 1924.....	Number 20,699,647
Include both dairy cows and beef cows which were milked.	
133. Butter made on farm in 1924.....	Lbs. 642,805,267
134. Butterfat sold in 1924.....	Lbs. 1,061,062,565
135. Cream sold in 1924 (not on a butterfat basis).....	Gals. 45,735,694
136. Whole milk sold in 1924 (not on a butterfat basis).....	Gals. 2,666,611,999

CENSUS OF 1920 (JAN. 1)		
37. Beef cattle, January 1, 1920 (cattle kept mainly for beef production):	NUMBER.	TOTAL VALUE.
1. Calves under 1 year of age.....	8,597,938	\$ 212,765,872
2. Heifers 1 year old and under 2 years of age.....	5,981,205	158,619,176
3. Cows and heifers 2 years old and over.....	12,624,996	739,155,096
4. Steers 1 year old and under 2 years of age.....	4,650,347	225,197,655
5. Steers 2 years old and over.....	4,629,778	350,217,958
6. Bulls 1 year old and over.....	725,165	77,809,896
38. Dairy cattle, January 1, 1920 (cattle kept mainly for milk production):		
1. Calves under 1 year of age.....	6,864,988	\$ 142,525,582
2. Heifers 1 year old and under 2 years of age.....	4,048,851	169,159,245
3. Cows and heifers 2 years old and over.....	19,675,297	1,807,613,140
4. Bulls 1 year old and over.....	772,320	66,375,267
39. Milk produced in 1919:	QUANTITY.	TOTAL VALUE.
1. Total amount of milk produced.....	Gals. ⁵ 7,805,145,798	X X X
Include milk fed to animals, consumed on farm, sold, or otherwise disposed of (100 pounds equal 11.6 gallons).		
40. Disposition of milk:		
1. Milk sold in 1919.....	Gals. 2,529,531,413	\$ 717,580,222
2. Cream sold in 1919.....	Gals. 82,247,680	111,905,929
3. Butter fat sold in 1919.....	Lbs. 532,244,072	303,552,156
4. Butter made on farm in 1919.....	Lbs. 707,666,492	X X X
5. Butter sold in 1919.....	Lbs. 207,659,564	106,975,742
6. Cheese made on farm in 1919.....	Lbs. 6,371,396	X X X

¹ Dairy calves included with beef calves.
² Dairy bulls included with beef bulls.
³ Includes estimates for incomplete reports.
⁴ Figure given includes estimates amounting to 911,416,374 gallons for 861,820 farms which reported dairy cows on hand, but did not report milk.
⁵ Not available.
⁶ Includes 1,852,706,810 gallons estimated as produced on farms which reported cows kept for milk, but no milk produced.
⁷ Includes estimates.

CENSUS OF 1910 (APR. 15)		
ANIMALS.	Number.	Value.
27. CATTLE:		
Cows and heifers kept for milk, born before January 1, 1909.....	20,625,452	\$ 706,236,307
Cows and heifers not kept for milk, born before January 1, 1909.....	12,025,692	269,160,193
Heifers born in 1909.....	7,295,880	103,194,026
Calves born after January 1, 1910.....	7,806,559	52,000,133
Steers and bulls born in 1909.....	5,450,289	91,585,307
Steers and bulls not kept for work, born before January 1, 1909.....	7,598,258	256,314,867
Steers kept for work, born before January 1, 1909.....	(*)	(*)

38. DAIRY PRODUCTS IN 1909:

DAIRY PRODUCTS.	TOTAL PRODUCED.		TOTAL SOLD.	
	Quantity.	Value.	Quantity.	Amount received.
Milk.....	Gals. ⁸ 7,466,406,384	\$ (9)	Gals. 1,937,255,864	\$ 252,436,757
Butter.....	Lbs. 994,650,610	222,661,440	Lbs. 415,080,489	100,378,123
Cream.....	X	X	Gals. 54,953,583	37,655,047
Butter fat.....	X	X	Lbs. 305,662,587	82,311,511
Cheese.....	Lbs. 9,405,864	1,148,708	Lbs. 8,136,501	987,974

CENSUS OF 1900 (JUNE 1)

38. Farm animals: Number and value, June 1, 1900, of all the animals on the farm, whether belonging to the occupant of the farm or to others.

ANIMALS.	Ages in years.	Number.	Value.
Calves.....	Under 1.....	15,315,582	\$137,290,001
Steers.....	1 and under 2.....	6,955,113	130,552,202
Steers.....	2 and under 3.....	5,195,006	151,586,664
Steers.....	3 and over.....	3,073,267	109,366,503
Bulls.....	1 and over.....	1,315,152	45,562,004
Heifers.....	1 and under 2.....	7,174,483	121,528,076
Cows kept for milk.....	2 and over.....	17,135,633	508,616,501
Cows and heifers not kept for milk.....	2 and over.....	11,559,194	271,502,682

42. Dairy products of 1899: Report, as sold, all milk and cream delivered to cooperative creameries and factories, but report no butter or cheese made in factories or creameries. Where milk or cream is sold by the pound, the enumerator must erase "gals." and write in its place "lbs." before filling in the schedule.

PRODUCTS.	Quantities produced in 1899.	SOLD IN 1899.	
		Quantities sold.	Received from sales.
Milk.....	Gals. ⁹ 7,265,804,304	Gals. 2,154,630,207	\$ 184,817,118
Cream.....	X	Gals. 20,768,662	8,858,776
Butter.....	Lbs. 1,071,626,056	Lbs. 518,042,767	86,570,373
Cheese.....	Lbs. 16,372,318	Lbs. 14,692,542	1,342,444

43. Total value of all milk, cream, butter, and cheese produced in 1899, and consumed on the farm..... \$ 472,276,783

CENSUS OF AGRICULTURE: 1940

TABLE 1.—HISTORY OF ENUMERATION OF CATTLE AND DAIRY PRODUCTS—FACSIMILE COPIES OF PORTIONS OF SCHEDULES DEVOTED TO THESE ITEMS: CENSUSES OF 1840 TO 1940—Continued

MEAT CATTLE.			DAIRY.										
On hand June 1, 1890.			Milk.			Cream.		Butter.		Cheese.			
Working oxen.	Milch cows.	Other cattle.	Total milk produced on farm in 1889. (1)	Sold for consumption in farm-lives. (1)	Sent to creamery or factory. (1)	Used on farm, including for butter and cheese.	Used on farm in raising cream for sale, including for creamery or factory.	Sent to creamery or factory. (1)	Sold other than to creamery or factory. (1)	Made on farm, 1889. (1)	Sold, 1889. (1)	Made on farm, 1889. (1)	Sold, 1889. (1)
No.	No.	No.	Gals.	Gals.	Gals.	Gals.	Gals.	Qts.	Qts.	Lbs.	Lbs.	Lbs.	Lbs.
1,117,494	16,511,950	33,734,126	6,210,125,567	(*)	(*)	(*)	(*)	(*)	(*)	1,024,223,469	(*)	18,726,818	(*)

(1)—Small amounts; Do not omit small amounts of products; for instance, a farmer may make only two pounds of butter a week and think it too small an amount to return, but all such small amounts should be given.
* Not available.

CENSUS OF 1880 (JUNE 1)

MEAT CATTLE AND THEIR PRODUCTS.					
On hand June 1, 1880.			Milk sold or sent to butter and cheese factories in 1879.	Butter made on the farm in 1879.	Cheese made on the farm in 1879.
Working oxen.	Milch cows.	Others.			
No.	No.	No.	Gals.	Lbs.	Lbs.
24	25	26	32	33	34
995,941	12,443,120	22,488,550	530,129,755	777,250,287	27,272,489

CENSUS OF 1870 (JUNE 1)

LIVESTOCK, JUNE 1, 1870.			PRODUCE DURING THE YEAR ENDING JUNE 1, 1870.		
Milch cows.	Working oxen.	Other cattle.	Dairy products.		
			Butter.	Cheese. ¹	Milk sold.
No.	No.	No.	Lbs.	Lbs.	Gals.
10	11	12	33	34	35
8,955,332	1,319,271	13,566,005	514,092,683	53,492,153	235,500,599

¹ This will include only such cheese as is made upon the farm. Milk sent to cheese factories will be regarded as milk sold off the farm.

CENSUS OF 1860 (JUNE 1)

LIVE STOCK, JUNE 1, 1860.			PRODUCE DURING THE YEAR ENDING JUNE 1, 1860.	
Milch cows.	Working oxen.	Other cattle.	Butter, pounds of.	Cheese, pounds of.
8	9	10	30	31
5,585,735	2,264,911	14,779,373	459,681,372	103,663,927

CENSUS OF 1850 (JUNE 1)

LIVE STOCK, JUNE 1, 1850.			PRODUCE DURING THE YEAR ENDING JUNE 1, 1850.	
Milch cows.	Working oxen.	Other cattle.	Butter, pounds of.	Cheese, pounds of.
8	9	10	30	31
6,586,094	1,700,744	9,693,069	315,345,306	105,535,893

CENSUS OF 1840 (JUNE 1)

LIVE STOCK.	COTTON, SUGAR, SILK, ETC.
Meat cattle.	Value of products of the dairy.