

COWS MILKED AND DAIRY PRODUCTS

INTRODUCTION

Increased interest in dairy production during this war period has arisen through the impetus of producing not only for domestic use, but also for lend-lease requirements. This interest, coupled with the need of various governmental agencies, producers, distributors, and manufacturers, prompted this presentation. Formal request for such a publication was received from the Secretary of Agriculture who stated, in part:

" * * * This information is in constant demand by governmental agencies on a county unit (basis) and is necessary to the establishment of accurate local goals for increased milk production. * * * These county data will * * * bring home to county organizations of farmers the reasonableness of their production goals and their personal responsibility for the accomplishment of the goals.

" * * * many employees in the Department of Agriculture, who are working on the problem of production goals for dairy products to meet our war needs, have expressed a lack of basic information on numbers of cows milked and production of milk, by counties, and by size of herd milked. * * *

"Need for these data on a county basis has recently been expressed, also, by operators of factories manufacturing machines designed to reduce the amount of hand work necessary in milk production. Inquiries have also been made by companies who are interested in establishing factories for processing milk in various ways for export to our allies.

" * * * these tabulations by counties are needed for effectual planning and successful accomplishment of the farmer's part in production for victory."

The primary purpose in presenting this report entitled "Cows Milked and Dairy Products" is to make available, by counties, much of the data collected by the 1940 Federal Census of Agriculture relating to cows milked. These statistics relate to milk produced, and quantity of and income from specified dairy products sold, particularly, when these items are arrayed by size of milking herd, or more precisely by the number of cows and heifers milked during all or any part of the 1939 calendar year.

To portray more effectively the geographic distribution of the production of dairy products and the form in which the producer disposes of his products, the presentation of the numerical data has been supplemented by the use of visual aids in the form of maps and diagrams. A historical series of dot maps is also given to show the growth of dairying, since data relative to the number of "milk cows" were first collected in 1850.

A classification by number of cows milked was first made in the Census of 1930, but not as many items were included, nor was the number of class units as numerous as in 1940. In the earlier Census, the classification was made only for the number of herds, the total number of cows milked with the number which was of beef or dual-purpose breeding, and milk production. In the 1940 classification, information was secured for the number of herds, the total number of cows milked, the number of cows kept for milk, milk production, butter churned on farms, farms reporting any dairy products sold, and the quantities of whole milk, cream, and butter sold. However, in the later Census, information was not secured as to the proportion of cows milked which was of beef or dual-purpose breeding. In 1930, data were tabulated for 9 class units; whereas, in 1940, data were tabulated for 13 class units, the additional groups representing a further breakdown of the smaller herds.

Additional tables are presented to show, by States, the relationship of—

- (1) The number of cows kept mainly for milk production to the total number of mature cows.
- (2) Total number of cows to total number of cattle
- (3) The value of cattle to the total value of all livestock.
- (4) Total value of dairy products to the total value of all livestock products.
- (5) The income from sales of dairy products to the total gross farm income for all farms and also for specified groups of farms.

(6) The income from various specified sources for dairy products farms to the income for all classified farms.

Derived figures are given to bring out all of the relationships more clearly, and comparative figures for earlier censuses are given when available.

DEFINITIONS AND EXPLANATIONS

Only those items are discussed which need clarification or for which explanatory remarks affecting comparability are required. Other publications give, in considerable detail, a description of the method of canvass, the definition of a farm, a discussion of the comparability of livestock numbers and livestock production, the method of classifying farms as to income, etc.

In the definition of a farm carried on the general farm schedule, the enumerator was cautioned to "Include dry-lot or barn dairies. * * *" and " * * * not report as a farm any tract of land of less than 3 acres, unless its agricultural products in 1939 were valued at \$250 or more." Thus, the numbers of cows and the production of milk shown in this report are not quite all-inclusive of all cows or of total milk production.

Farms reporting.—The term "farms reporting" indicates the number of farms for which the specified items shown in a particular table were reported. If there were 1,922 farms in a county and sale of dairy products were made from 1,465 of these farms in the calendar year 1939, and the enumeration of that item was complete, the number of farms reporting dairy products sold would be given in the table as 1,465.

Livestock and livestock products.—For convenience, the term "livestock" in the Census reports is made to include not only domestic animals, such as horses, mules, cattle, sheep, and goats, but also fur-bearing animals kept in captivity, poultry, and bees. It follows, then, that the term "livestock products" should include production from the above classes. This general usage is followed throughout with one exception, viz, the term "livestock sold or traded" excludes poultry, bees, and fur animals in tables 3, 4, 16, 17, and 18. Income from sales of poultry and poultry products is shown in a separate total; while income from bees, honey, wax, goat milk, and fur animals, together with income from wool, mohair, meat, hides, etc., is included in the figure for "other livestock products."

In theory, a change in the date of enumeration should have little effect on the volume of milk production reported for the previous calendar year. However, experience indicates that, when accurate records of production are not kept, daily production of milk at the time of the enumeration does affect the total volume reported for a calendar year. This means that a census of milk production taken as of April 1, or near peak production, for the previous calendar year, would tend to give somewhat higher figures than a census taken in January which is near the low point of production.

The nature and form of the inquiries for recording inventories of cattle, number of cows milked, quantity of milk produced, quantity of butter churned, and sales of specified dairy products are given in table 1 along with numerical totals for the United States. These are given for each Census beginning with the first Census of Agriculture in 1840. As may be noted by an inspection of these inquiries, the terminology for determining the number of milk cows and the number of cows milked has not been constant. Most of these differences are brought out also in the historical tables. No separation of milk cows was made in 1840. The first recording of the number of cows milked was made in the Census of 1925 and has been repeated for each succeeding census. A slight improvement in the wording of the question for this item was attempted in the 1940 Census in that the number was to relate to cows milked during any part of the previous year; whereas, in the previous censuses the inquiry mentioned the number milked during all or any part of the previous year. In presenting the data for the number of cows and heifers on hand and the number of cows and heifers milked, the word "heifers" is sometimes omitted for brevity.

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, poults, 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 byproducts, 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..60,774,759		
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..24,074,484
(b) Kept mainly for beef production?.....		Number..2,449,791
Cows milked and dairy products, 1939:		
55. Total cows milked during any part of 1939 (include heifers milked)..... Number..21,939,559		
56. Milk produced in 1939 (report in gallons: 8.6 pounds = 1 gallon)..... Gallons..11,509,245,769		
Report all milk produced, whether consumed, sold, fed to stock, or otherwise disposed of.		
57. Butter churned on farm in 1939..... Pounds..428,692,539		
58. Whole milk sold in 1939 Gallons...5,375,497,991	59. Cream sold in 1939 (butterfat content) Pounds of butterfat...1,090,261,486	60. Butter sold in 1939 Pounds 76,358,236
61. Value of all dairy products sold or traded in 1939-- milk, cream, butter, cheese, etc. (omit cents)..... \$..1,119,192,799		
CENSUS OF 1936 (JAN. 1)		
61. Total cattle and calves, of all ages, Jan. 1, 1936..... Number..58,284,499		
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..8,298,913		
64. Steers and bulls 1 year old and over?..... Number..6,938,093		
65. Cows and heifers 2 years old and over?..... Number..36,930,584		
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..24,591,669		
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..2,615,649		
79. Steers born before 1928..... Number..1,135,762		
80. Heifers born in 1928, being kept mainly for milk cows (2-year olds)..... Number..3,759,491		
81. Heifers born in 1928, being kept mainly for beef cows or beef production (2-year olds)..... Number..2,095,911		
82. Cows and heifers born before 1928, kept mainly for milk production..... Number..20,498,966		
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..3,371,697		
86. Milk produced in 1929 (8.6 lbs. equal 1 gal.)..... Gallons..11,069,028,357		
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..4,456,638,767	\$.....(1)
	(Omit cents)	
89. Cream sold as butterfat.....	Lbs..1,179,908,874	\$.....(1)
	(Butterfat)	(Omit cents)
90. Cream sold not as butterfat.....	Gals..15,848,164	\$.....(1)
	(Omit cents)	
91. Butter sold (churned on this farm)...	Lbs..135,045,398	\$.....(1)
	(Omit cents)	
92. Number of cows and heifers that are being milked daily at present time..... Number..16,666,666		
93. Daily production of milk at present time..... Gallons..36,328,207		

¹ Not 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 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 14,508,978
125. Steers 1 year old and over.....	Number 6,903,472
Include both steers born of beef cows and steers born of dairy cows.	
126. Bulls 1 year old and over.....	Number 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 (?)
128. Dairy calves under 1 year of age.....	Number (?)
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 17,644,857
Dairy products in 1924:	
131. Total amount of milk produced in 1924.....	Gals. 9,198,303,636
Includes 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 20,899,647
Includes both dairy cows and beef cows which were milked.	
133. Butter made on farm in 1924.....	Lbs. 642,605,267
134. Butterfat sold in 1924.....	Lbs. 1,061,062,563
135. Cream sold in 1924 (not on a butterfat basis).....	Gals. 45,756,694
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.....	8,597,958	\$ 212,763,872
2. Heifers 1 year old and under 2 years of age.....	5,981,205	158,519,176
3. Cows and heifers 2 years old and over.....	12,624,896	759,155,098
4. Steers 1 year old and under 2 years of age.....	4,650,347	225,197,635
5. Steers 2 years old and over.....	4,629,778	350,217,938
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	\$ 142,325,582
2. Heifers 1 year old and under 2 years of age.....	4,040,851	169,169,243
3. Cows and heifers 2 years old and over.....	19,675,297	1,607,613,140
4. Bulls 1 year old and over.....	772,320	66,373,267
39. Milk produced in 1919:	QUANTITY.	TOTAL VALUE.
1. Total amount of milk produced.....	Gals. 7,805,143,792	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	\$ 717,360,222
2. Cream sold in 1919.....	Gals. 82,247,500	111,905,929
3. Butter fat sold in 1919.....	Lbs. 532,244,072	303,562,156
4. Butter made on farm in 1919.....	Lbs. 707,666,492	X X X
5. Butter sold in 1919.....	Lbs. 207,859,664	106,973,742
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 881,820 farms which reported dairy cows on hand, but did not report milk.
⁵ Not available.
⁶ Includes 1,852,706,910 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.....	20,625,432	\$ 706,256,307
Cows and heifers not kept for milk, born before January 1, 1909.....	12,025,692	269,169,198
Heifers born in 1909.....	7,259,890	103,194,026
Calves born after January 1, 1910.....	7,806,539	52,000,133
Steers and bulls born in 1909.....	5,450,289	91,686,307
Steers and bulls not kept for work, born before January 1, 1909.....	7,598,259	266,314,667
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. 7,466,406,384	\$.....(*)	Gals. 1,937,255,664	\$ 262,436,757
Butter.....	Lbs. 894,650,610	222,861,440	Lbs. 415,090,499	100,379,123
Cream.....	X	X	Gals. 54,935,593	37,655,047
Butter fat.....	X	X	Lbs. 305,662,587	82,311,511
Cheese.....	Lbs. 9,405,864	1,148,709	Lbs. 9,136,901	997,974

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.....	16,315,682	\$137,250,001
Steers.....	1 and under 2.....	6,853,213	130,352,202
Steers.....	2 and under 3.....	5,193,005	151,366,664
Steers.....	3 and over.....	3,073,267	109,366,603
Bulls.....	1 and over.....	1,312,132	45,362,004
Heifers.....	1 and under 2.....	7,174,483	121,688,076
Cows kept for milk.....	2 and over.....	17,135,633	508,616,601
Cows and heifers not kept for milk.....	2 and over.....	11,552,194	271,302,682

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. 7,265,004,304	Gals. 2,134,830,207	\$ 184,817,119
Cream.....	X	Gals. 20,768,662	8,838,776
Butter.....	Lbs. 1,071,626,056	Lbs. 518,042,767	86,570,973
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.....			\$ 472,276,785

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

CENSUS OF 1890 (JUNE 1)

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 families. (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	53,734,128	6,210,125,567	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	1,024,223,468	(¹)	18,726,818	(¹)

¹—Small amounts; do not send 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.	Gals.	Lbs.	Lbs.
No.	No.	No.	32	33	34
24	25	26	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.		
No.	No.	No.	Butter.	Cheese. ¹	Milk sold.
No.	No.	No.	Lbs.	Lbs.	Gals.
10	11	12	33	34	35
8,335,332	1,319,271	13,866,006	514,092,683	53,492,153	235,500,539

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
3,585,735	2,254,911	14,779,375	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
6,385,094	1,700,744	9,693,069	515,345,306	105,535,893

CENSUS OF 1840 (JUNE 1)

LIVE STOCK.	COTTON, SUGAR, SILK, ETC.
Neat cattle.	Value of products of the dairy.
14,971,586	\$33,787,008

COWS MILKED AND DAIRY PRODUCTS

TABLE 2.—CLASSIFICATION BY NUMBER OF COWS MILKED—FARMS REPORTING, NUMBER OF COWS MILKED, AND MILK PRODUCTION, 1939 AND 1929; BUTTER CHURNED AND DAIRY PRODUCTS SOLD, 1939; AND NUMBER OF COWS KEPT MAINLY FOR MILK PRODUCTION, 1940; WITH SPECIFIED AVERAGES AND PERCENTAGES; FOR THE UNITED STATES

(Figures for divisions and States in tables 6, 12, and 15)

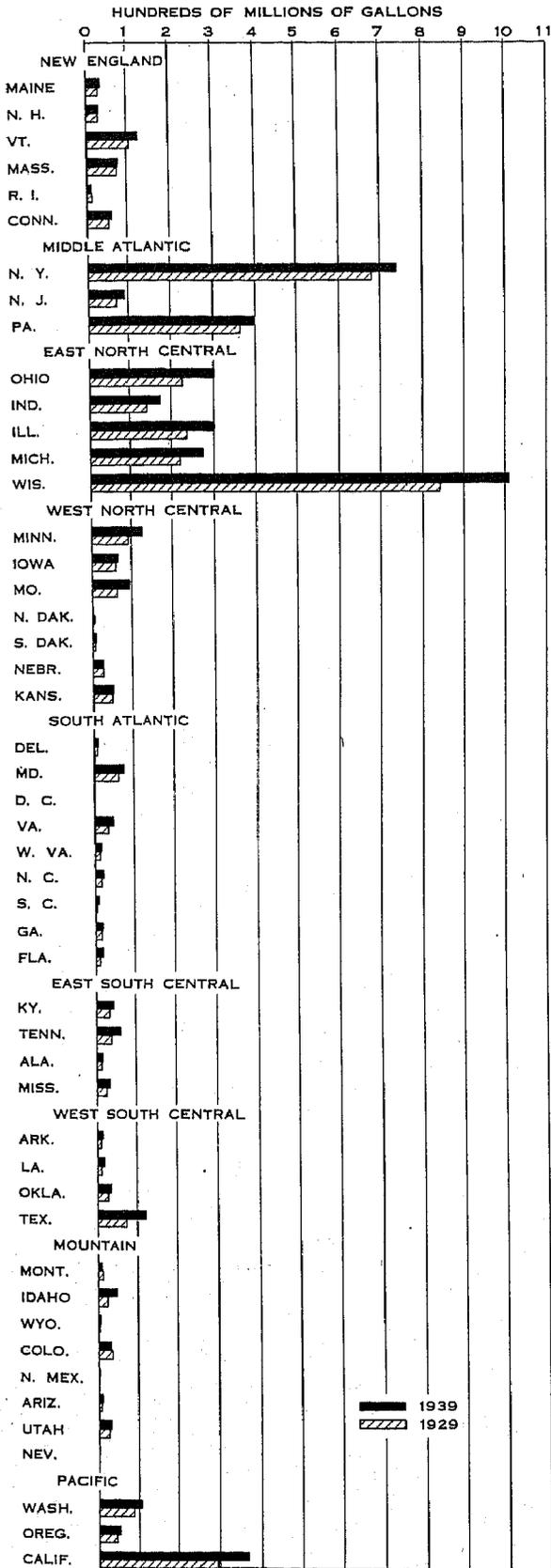
NUMBER OF COWS MILKED	COWS AND HEIFERS MILKED						MILK PRODUCED (GALLONS)								COWS AND HEIFERS KEPT MAINLY FOR MILK PRODUCTION, APR. 1, 1940		
	Farms reporting			Number			Average per farm reporting		Average per cow milked		Number		Farms reporting	Total	Ratio to cows milked (per-cent)		
	1939	1929	1939	Total	Of beef or dual-purpose breeding	Average per farm reporting		1939	1929	1939	1929	1939				1929	
						1939	1929										
Total	4,685,431	4,615,529	21,936,556	21,124,221	3,371,597	4.7	4.8	11,508,243,769	11,052,025,557	2,468	2,395	525	523	4,644,317	24,074,424	109.7	
No cows milked														135,370	392,220	xxx	
1 cow	1,432,274	2,274,862	1,432,274	5,177,427	349,454	1.0	1.4	641,539,934	1,375,791,674	448	604	448	432	1,346,906	1,743,489	121.7	
2 cows	926,332		1,852,664			2.0		726,333,300		786		393		896,977	2,107,937	113.8	
3 cows	441,731		1,325,193			3.0		531,639,983		1,204		401		430,766	1,476,429	111.4	
4 cows	347,954	1,781,581	1,391,816	9,051,228	1,868,940	4.0	5.1	587,540,271	4,347,027,444	1,889	2,440	422	480	340,546	1,512,710	105.7	
5 to 9 cows	922,488		6,048,437			6.6		2,905,919,650		3,180		480		907,681	6,437,789	106.4	
10 to 14 cows	336,249	454,096	3,870,183	5,805,277	921,526	11.5	12.8	2,156,433,693	3,331,218,259	6,413	7,358	557	574	332,311	4,270,630	105.0	
15 to 19 cows	131,091		2,161,838			16.5		1,326,506,361		10,111		615		123,702	2,275,714	104.8	
20 to 29 cows	84,706	75,283	1,934,807	1,665,224	150,593	22.8	22.7	1,265,739,287	1,040,657,986	14,825	14,204	649	626	83,514	1,142,738	105.7	
30 to 49 cows	30,520	24,307	1,080,887	855,943	54,149	35.4	35.2	756,551,473	556,735,852	24,133	22,904	681	650	30,211	398,058	108.4	
50 to 74 cows	6,363	4,935	367,055	283,387	15,982	57.7	57.4	285,588,936	192,954,098	41,786	39,099	724	681	6,319	155,899	108.1	
75 to 99 cows	1,728	1,276	144,264	105,559	4,245	83.5	82.7	111,554,405	75,323,332	64,557	59,051	714	714	1,721	223,083	108.3	
100 to 199 cows	1,633	1,044	205,984	130,279	6,199	126.1	124.8	159,762,987	91,124,465	97,634	87,284	778	699	1,621	123,143	101.5	
200 cows and over	364	165	121,354	51,897	1,509	333.4	314.6	102,154,491	48,190,249	280,644	261,759	842	832	362			

NUMBER OF COWS MILKED	BUTTER CHURNED, 1939				DAIRY PRODUCTS SOLD, 1939														
	Farms reporting	Quantity (pounds)		Farms reporting any dairy products sold ¹	Whole milk sold				Cream sold				Butter sold				Percent of farms reporting sales of any dairy products ² which re-ported—		
		Total	Average per farm reporting		Farms reporting	Quantity (gallons)		Farms reporting	Butterfat content (pounds)		Farms reporting	Quantity (pounds)		Ratio (per-cent) to butter churned	Whole milk sold	Cream sold	Butter sold		
						Total	Average per farm reporting		Total	Average per farm reporting		Total	Average per farm reporting						
Total	2,930,152	428,692,359	146	2,630,846	955,898	5,375,407,901	5,635	1,460,383	1,090,261,486	747	389,316	78,358,236	196	13.3	17.8	36.3	55.5	14.8	
1 cow	1,105,195	123,241,879	112	226,557	51,036	11,096,565	217	78,143	8,308,583	106	116,956	8,949,637	77	10.8	7.3	22.5	34.5	51.6	
2 cows	721,058	109,335,726	152	369,765	79,619	40,489,528	509	201,228	36,677,515	192	118,796	14,092,734	119	16.5	12.9	21.5	54.4	52.1	
3 cows	311,076	49,362,852	161	290,042	70,719	67,579,354	956	187,093	56,463,211	302	53,143	9,223,414	174	17.1	18.5	24.4	64.5	38.3	
4 cows	219,500	35,410,174	161	283,076	78,403	110,466,032	1,446	192,082	81,239,858	423	32,808	7,812,728	287	15.0	22.1	27.0	87.9	11.6	
5 to 9 cows	442,864	75,511,033	171	871,061	308,522	956,973,822	3,102	560,902	435,966,626	774	51,057	20,004,219	392	11.5	26.5	35.4	64.4	5.9	
10 to 14 cows	91,774	20,077,755	219	334,300	174,752	1,129,283,508	6,462	166,768	255,601,151	1,533	9,720	7,003,644	721	10.6	34.9	52.3	49.9	2.1	
15 to 19 cows	21,372	5,876,042	275	130,879	88,183	882,028,014	10,002	46,807	112,079,074	2,394	2,798	2,688,757	954	13.1	45.4	67.4	35.8		
20 to 29 cows	11,668	4,224,959	362	84,561	67,626	974,614,478	14,412	20,610	67,052,981	3,253	2,189	2,487,782	1,183	18.5	58.9	80.0	24.4	2.5	
30 to 49 cows	4,280	2,475,899	577	30,464	27,631	632,797,482	22,902	4,965	21,271,239	4,284	1,203	1,808,916	1,500	28.0	72.9	90.6	16.3		
50 to 74 cows	870	1,041,980	1,198	6,356	5,900	233,339,851	39,549	1,127	7,163,361	6,356	554	888,583	2,510	40.7	85.5	92.8	17.7	5.6	
75 to 99 cows	258	570,989	2,399	1,728	1,601	97,731,390	61,044	339	3,140,744	9,265	115	529,212	4,602	48.5	92.7	95.2	15.7	6.7	
100 to 199 cows	182	751,745	4,130	1,633	1,555	144,584,887	92,981	256	3,359,341	13,122	97	700,836	7,228	53.3	93.2	95.2	15.7	5.9	
200 cows and over	47	208,356	4,433	364	349	94,417,010	270,536	63	1,937,802	30,759	30	192,974	6,432	63.8	92.6	95.9	17.3	8.2	

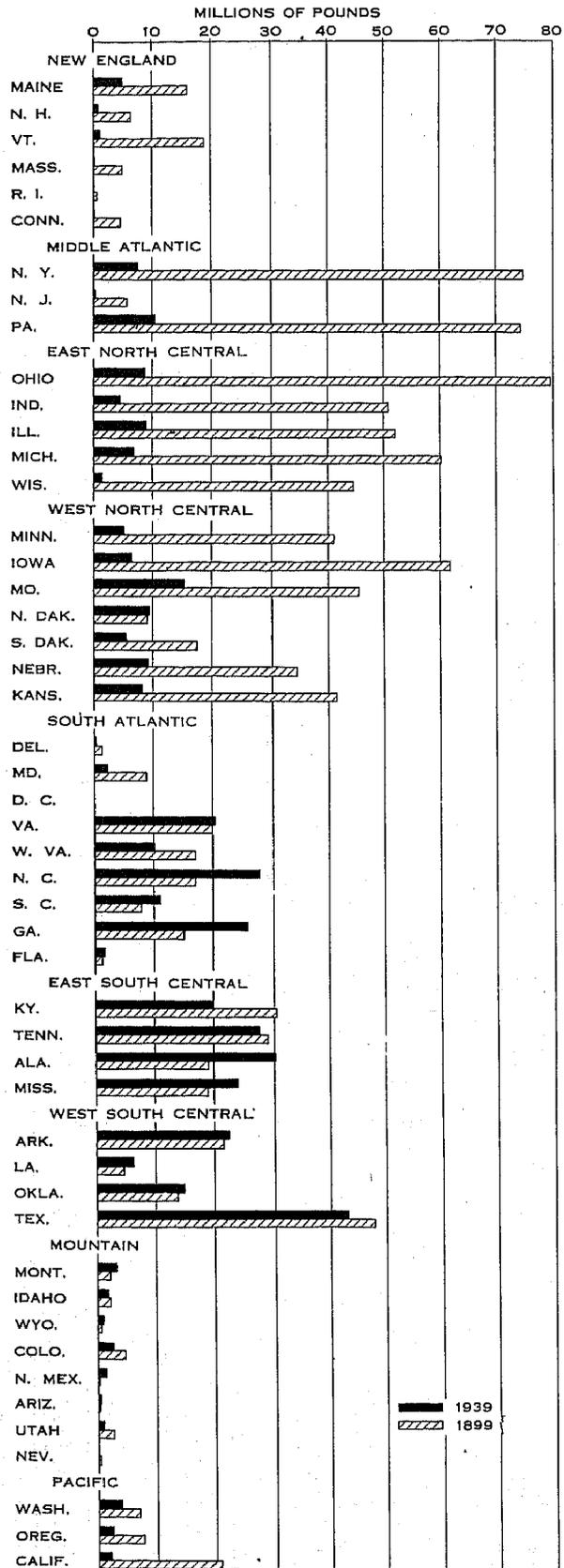
NUMBER OF COWS MILKED	PERCENT OF FARMS REPORTING COWS MILKED IN 1939 THAT REPORTED—					PERCENT OF MILK PRODUCED IN 1939—					PERCENT DISTRIBUTION											
	Butter churned	Sales of—				Sold as whole milk	Sold as cream	Dis-posed of other than by sales of milk and cream	Cows and heifers milked		Milk produced (gallons)		Butter churned, 1939 (pounds)	Dairy products sold, 1939								
		Any dairy products ¹	Whole milk	Cream	But-ter				Farms re- porting	Number	1939	1929		1939	1929	Farms re- porting any dairy products sold ¹	Whole milk sold		Cream sold		Butter sold	
																	Farms re- porting	Gal- lons	Farms re- porting	But-terfat (lbs.)	Farms re- porting	Pounds
Total	62.8	56.4	20.5	31.3	8.3	46.7	29.9	24.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
1 cow	77.2	15.8	3.6	5.5	8.2	1.7	3.8	94.5	30.7	49.3	6.5	15.0	5.8	12.4	28.7	8.6	5.4	0.2	5.4	0.8	50.0	11.7
2 cows	77.8	39.9	8.5	21.7	12.8	5.6	15.7	78.7	19.9	8.4	8.4	6.5	8.5	12.4	25.5	14.1	8.3	0.8	13.8	3.5	50.5	18.5
3 cows	70.4	65.7	16.0	42.4	12.0	12.7	31.6	55.7	9.5	6.0	6.0	4.6	6.6	8.3	11.7	11.0	7.4	1.3	12.8	5.2	13.7	12.1
4 cows	63.1	81.4	22.0	55.2	9.5	18.8	41.5	39.7	7.5	38.8	8.3	42.8	5.1	39.3	8.3	10.8	8.0	2.1	13.2	7.5	8.5	10.2
5 to 9 cows	48.0	94.4	33.4	60.8	5.5	32.9	45.7	21.4	19.6	27.6	6.3	25.3	5.3	17.6	17.6	33.1	32.3	17.8	38.4	39.8	13.1	28.2
10 to 14 cows	27.3	99.4	52.0	49.6	2.9	52.4	36.8	10.8	7.2	17.6	4.7	12.7	18.3	21.0	4.7	12.7	18.3	21.0	11.4	23.4	2.5	9.2
15 to 19 cows	16.3	99.8	87.3	35.7	2.1	66.5	26.3	7.2	2.8	9.8	1.4	5.0	9.2	18.4	1.4	5.0	9.2	18.4	3.2	10.3	0.7	3.5
20 to 29 cows	13.8	100.0	79.8	24.3	2.5	77.6	16.6	5.9	1.8	0.6	1.0	3.2	7.1	18.1	1.4	3.2	7.1	18.1	1.4	6.2	0.5	3.5
30 to 49 cows	14.1	99.9	90.5	16.3	3.9	85.9	8.8	5.0	0.7	0.6	0.8	7.9	10.9	9.4	1.0	3.2	7.1	18.1	1.4	6.2	0.5	3.5
50 to 74 cows	13.7	99.9	92.7	17.7	5.6	87.9	8.1	4.0	0.1	0.1	1.7	1.5	2.3	1.7	0.2	0.2	0.6	4.3	0.1	0.7	0.1	1.2
75 to 99 cows	13.8	100.0	92.7	19.6	6.7	87.6	8.5	3.9	(²)	(²)	0.7	0.5	1.0	0.7	0.1	0.1	0.1	0.2	1.8	(²)	0.3	0.7
100 to 199 cows	11.1	100.0	96.2	15.7	5.9	90.5	6.3	3.2	(²)	(²)	0.8	0.6	1.4	0.8	0.2	0.1	0.2	2.7	(²)	0.3	(²)	0.9
200 cows and over	12.9	100.0	95.9	17.3	8.2	92.4	5.8	1.8	(²)	(²)	0.6	0.2	0.9	0.4	0.2	0.1	0.2	1.8	(²)	0.2	(²)	0.5

¹ Quantity of milk, cream, or butter. See text discussion.
² Less than one-tenth of 1 percent.

WHOLE MILK SOLD - NUMBER OF GALLONS, BY STATES: 1939 AND 1929



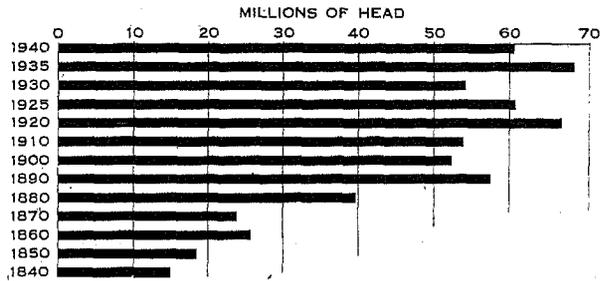
BUTTER CHURNED ON FARMS - NUMBER OF POUNDS, BY STATES: 1939 AND 1899



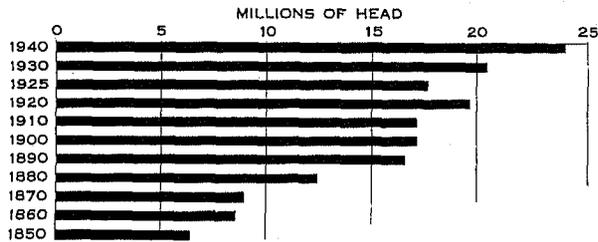
In table 2 the number of farms reporting any dairy products sold is given as 2,630,846 and is based on the number of farms reporting one or more of the following: Gallons of whole milk sold, cream sold in terms of pounds of butterfat, and pounds of butter sold. In table 4 the number of farms reporting dairy products sold or traded is given as 2,647,851 and is based on the number of farms reporting dollar sales in response to the first question on income given above. Accordingly, 17,005 more farms, or 0.6 percent, reported income from sales than reported quantities of milk, cream, or butter sold. This difference was general, occurring in all geographic

divisions. A part of this difference was conceivably due to some farms having sold milk products, such as cheese, ice cream, skim milk, or buttermilk, for which actual quantity information was not required. Offsetting this, to some extent, would be those farms which were unclassified as to income which may have had either or both quantity sales and dollar income from sales of dairy products.

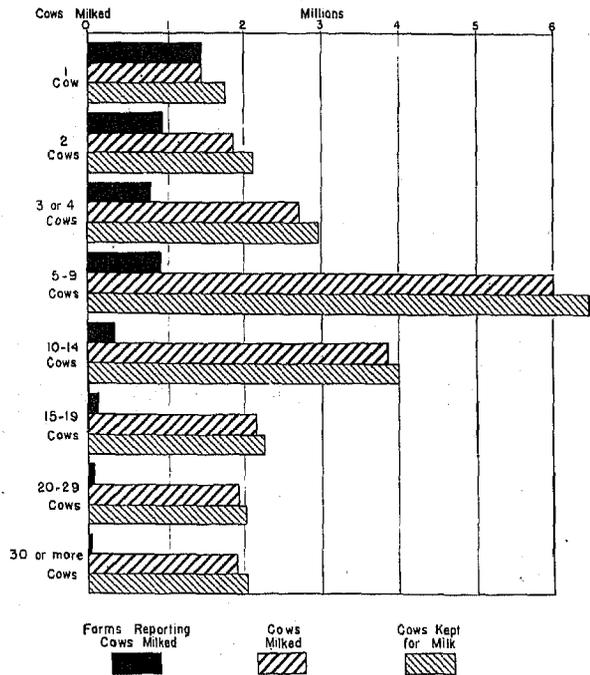
CATTLE - NUMBER IN THE UNITED STATES: 1840-1940



COWS KEPT MAINLY FOR MILK PRODUCTION - NUMBER IN THE UNITED STATES: 1850-1940

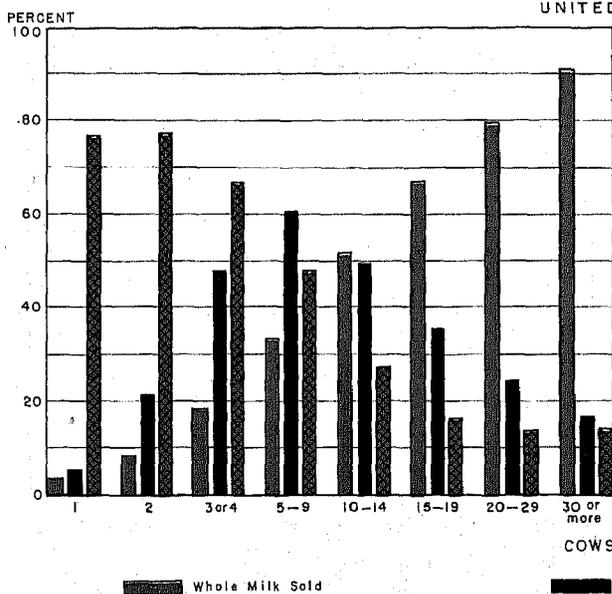


Classification by Number of Cows Milked - Farms Reporting and Number of Cows Milked, 1939, with Number of Cows Kept for Milk, April 1, 1940, for the United States

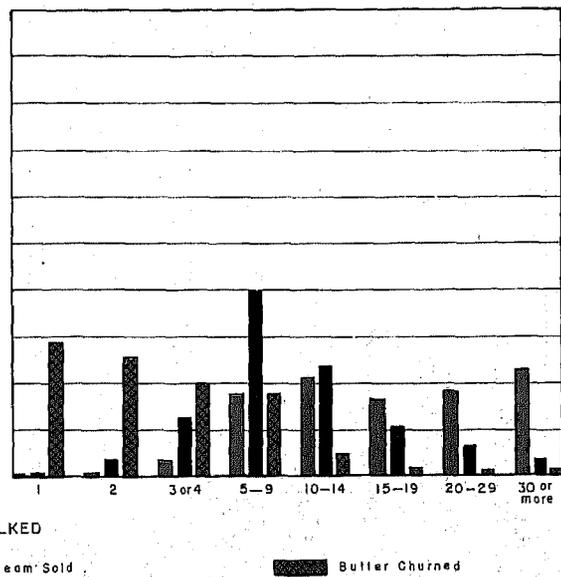


CLASSIFICATION BY NUMBER OF COWS MILKED IN 1939 FOR THE UNITED STATES AND SELECTED STATES

(a)---Percent of Total Farms in each Group Reporting Milk Sold, Cream Sold, and Butter Churned



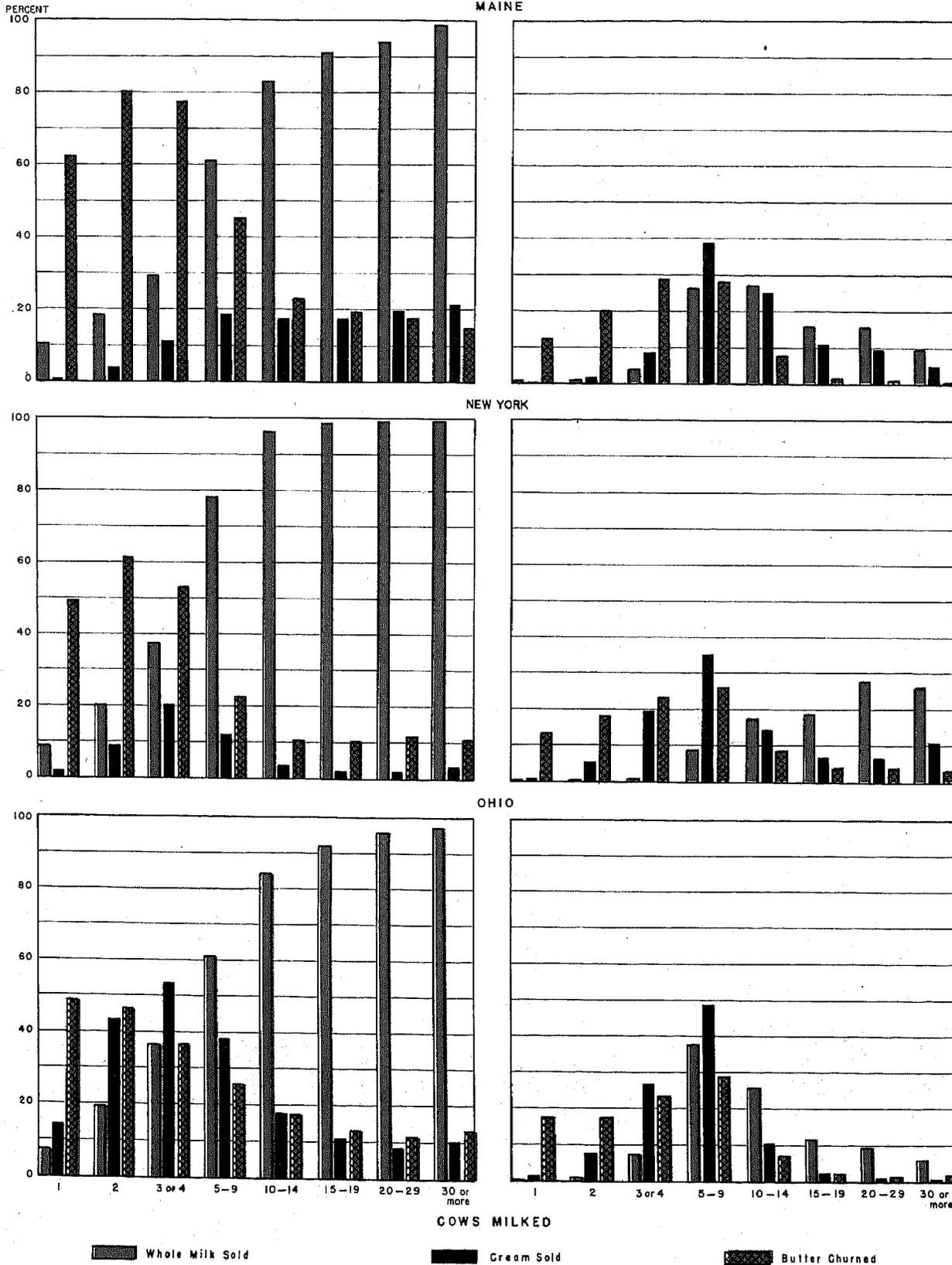
(b)---Percent Distribution of Total Quantities of Milk Sold, Cream Sold, and Butter Churned



CLASSIFICATION BY NUMBER OF COWS MILKED IN 1939 FOR THE UNITED STATES
AND SELECTED STATES --Continued

(a)--Percent of Total Farms in each Group Reporting Milk Sold, Cream Sold, and Butter Churned

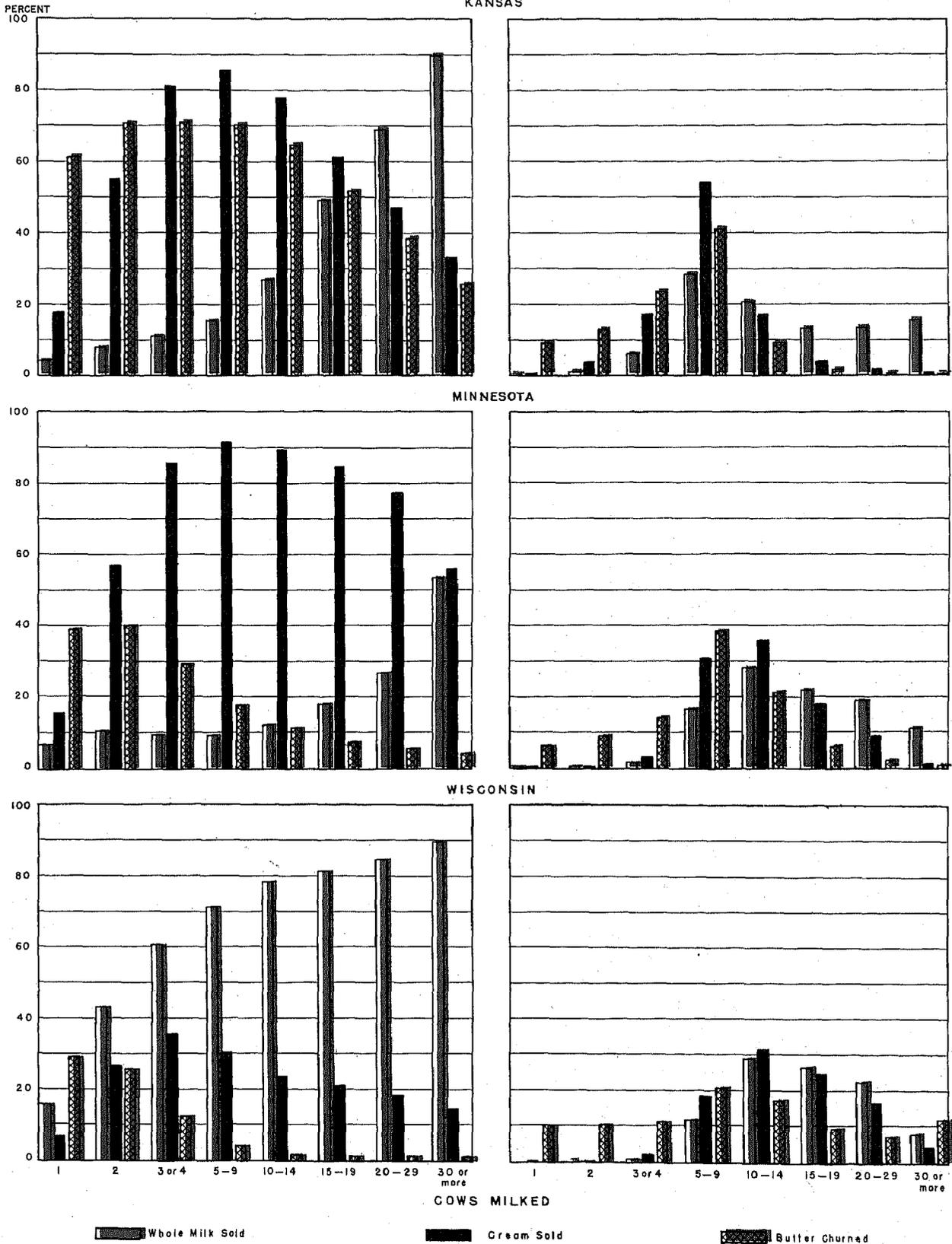
(b)--Percent Distribution of Total Quantities of Milk Sold, Cream Sold, and Butter Churned



CLASSIFICATION BY NUMBER OF COWS MILKED IN 1939 FOR THE UNITED STATES AND SELECTED STATES -- Continued

(a)--Percent of Total Farms in each Group Reporting Milk Sold, Cream Sold, and Butter Churned

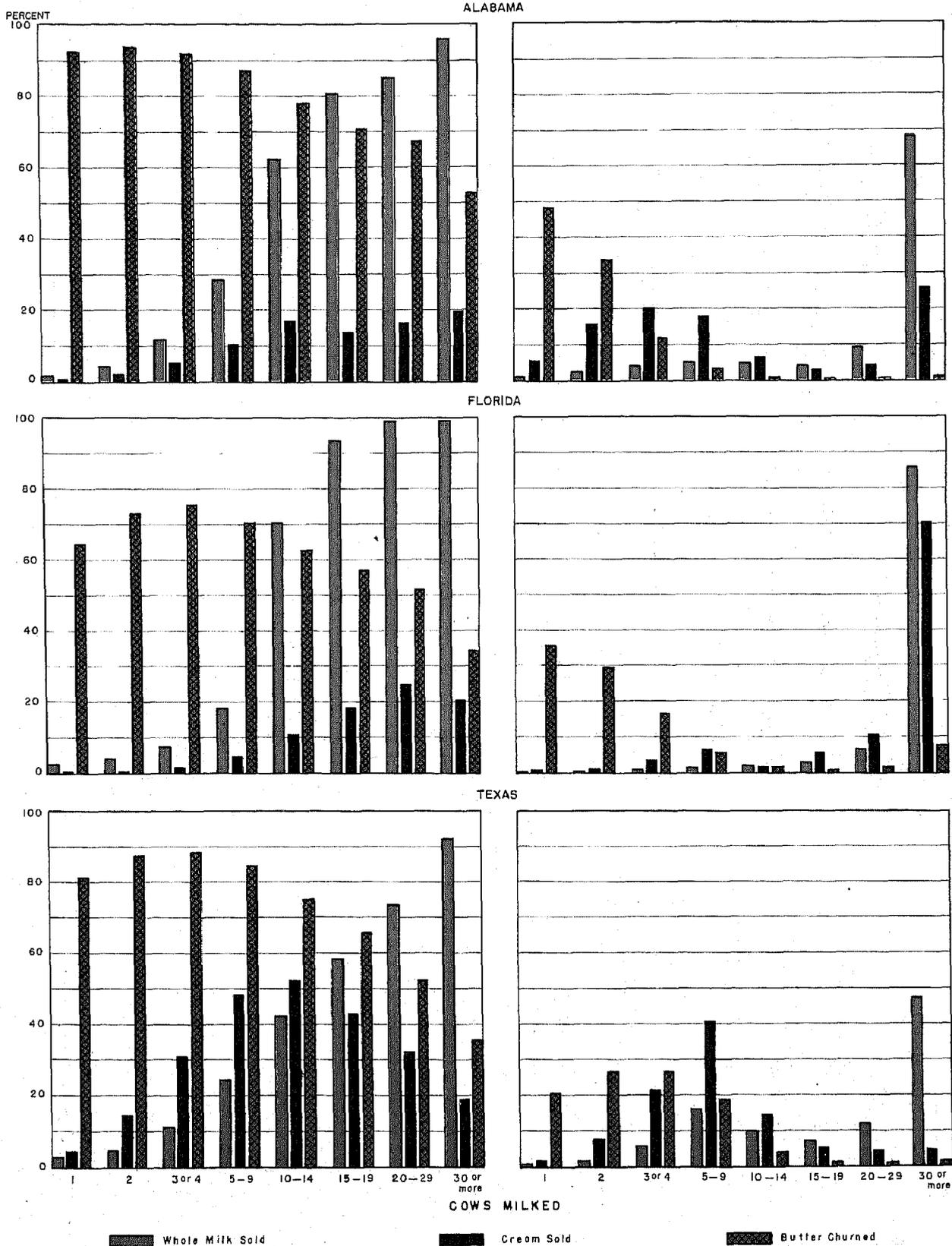
(b)--Percent Distribution of Total Quantities of Milk Sold, Cream Sold, and Butter Churned



CLASSIFICATION BY NUMBER OF COWS MILKED IN 1939 FOR THE UNITED STATES
AND SELECTED STATES -- Continued

(a)--Percent of Total Farms in each Group Reporting Milk Sold, Cream Sold, and Butter Churned

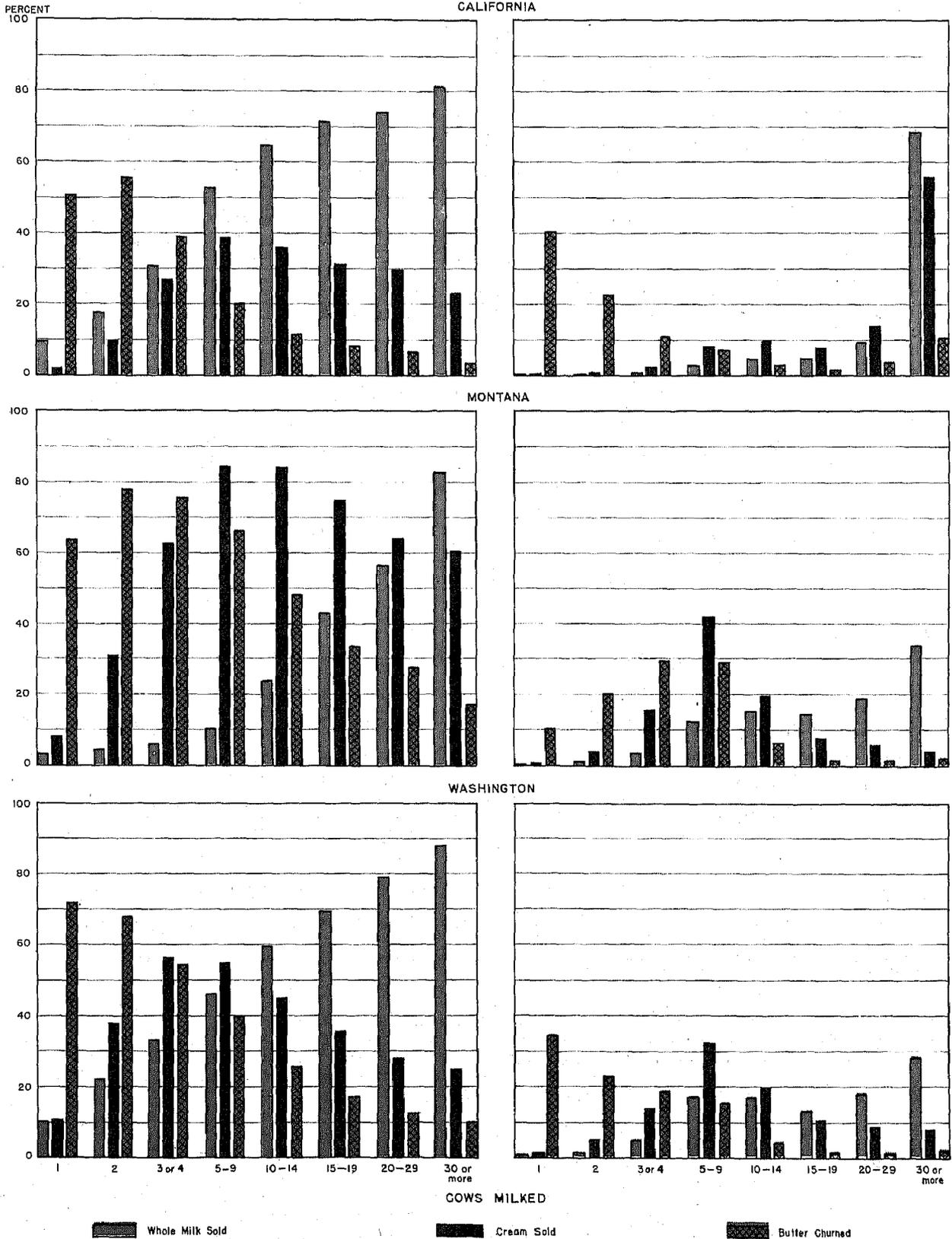
(b)--Percent Distribution of Total Quantities of Milk Sold, Cream Sold, and Butter Churned



CLASSIFICATION BY NUMBER OF COWS MILKED IN 1939 FOR THE UNITED STATES
AND SELECTED STATES -- Continued

(a)--Percent of Total Farms in each Group Reporting Milk Sold, Cream Sold, and Butter Churned

(b)--Percent Distribution of Total Quantities of Milk Sold, Cream Sold, and Butter Churned



CENSUS OF AGRICULTURE: 1940

TABLE 3.—VALUE OF FARM PRODUCTS SOLD, TRADED, OR USED BY FARM HOUSEHOLDS ON ALL CLASSIFIED FARMS AND ON DAIRY PRODUCTS FARMS, FOR THE UNITED STATES: 1939

(For explanation of major-source-of-income classification, see text. Figures for divisions and States in tables 16, 17, and 18)

SOURCE OF FARM INCOME	ALL CLASSIFIED FARMS ¹					DAIRY PRODUCTS FARMS ²				
	Number		Value of farm products sold, traded, or used by farm households			Number		Value of farm products sold, traded, or used by farm households		
	Total	Percent of all classified farms	Total (dollars)	Average per farm (dollars)	Percent distribution	Total	Percent of all dairy products farms	Total (dollars)	Average per farm (dollars)	Percent distribution
Total-----	5,968,755	100.0	7,813,644,567	1,309	100.0	619,006	100.0	1,214,181,902	1,962	100.0
For all classified farms reporting:										
Livestock and livestock products sold or traded-----	4,456,508	74.7	3,547,482,358	798	45.4	619,006	100.0	973,737,240	1,573	80.2
Livestock sold or traded ³ -----	3,201,965	53.6	1,785,611,156	551	22.6	513,645	83.0	144,118,058	281	11.9
Livestock products sold or traded-----	4,113,539	68.9	1,781,871,202	433	22.8	619,006	100.0	829,619,182	1,340	68.3
Dairy products-----	2,647,851	44.4	1,118,192,799	422	14.3	619,006	100.0	781,106,226	1,230	62.7
Poultry and poultry products-----	3,507,802	58.8	555,411,698	158	7.1	422,143	68.2	61,240,492	145	5.0
Other livestock products-----	680,463	11.4	108,266,705	158	1.4	82,067	13.3	7,272,464	89	0.6
Crops sold or traded ⁴ -----	4,225,175	70.8	3,094,947,321	733	39.6	310,326	50.1	103,586,309	334	8.5
Field crops sold or traded ⁵ -----	3,825,470	64.1	2,470,727,331	646	31.6	263,518	42.6	83,964,022	319	6.9
Vegetables harvested for sale ⁶ -----	458,011	7.7	199,526,002	436	2.6	51,390	8.3	12,267,289	259	1.0
Fruits and nuts sold or traded-----	680,785	11.2	295,353,985	442	3.8	60,871	9.8	6,761,846	111	0.6
Horticultural specialties sold ⁶ -----	29,774	0.5	129,343,003	4,495	1.7	900	0.1	593,152	859	(7)
Forest products sold ⁴ -----	276,811	4.6	39,151,613	142	0.5	48,196	7.8	6,548,139	136	0.5
Farm products used by farm households-----	5,755,078	96.4	1,132,063,275	197	14.5	613,648	99.1	130,610,214	212	10.7

¹ Includes farms with usable reports for value of farm products sold, traded, or used by farm households; but excludes 88,502 farms with no products sold, traded, or used by farm households, and also 39,542 unclassified farms. ² Farms with major source of income from dairy products sold or traded. ³ Excludes poultry, bees, and fur-bearing animals. ⁴ Value of sales for maple sirup and sugar included with "Forest products." ⁵ The value of sales for Irish and sweet potatoes included with "Field crops," not with "Vegetables." ⁶ The number of farms reporting "Horticultural specialties" shown in this table includes only those reporting sales in 1939. ⁷ Less than one-tenth of 1 percent.

TABLE 4.—FARMS CLASSIFIED BY MAJOR SOURCE OF INCOME—VALUE OF ALL FARM PRODUCTS SOLD, TRADED, OR USED BY FARM HOUSEHOLDS AND VALUE OF MAJOR SOURCE; WITH FARMS REPORTING AND INCOME FROM DAIRY PRODUCTS SOLD OR TRADED; FOR THE UNITED STATES: 1939

(For explanation of major-source-of-income classification, see text. Figures for divisions and States in tables 16, 17, and 18)

CLASSIFICATION BY MAJOR SOURCE OF INCOME	NUMBER OF CLASSIFIED FARMS		VALUE OF ALL FARM PRODUCTS SOLD, TRADED, OR USED BY FARM HOUSEHOLDS					DAIRY PRODUCTS SOLD OR TRADED				
	Total	Percent distribution	Total			Value of major source of income		Farms reporting		Income from dairy products		
			Amount (dollars)	Average per farm (dollars)	Percent distribution	Amount (dollars)	Percent of income from all sources	Number	Percent of total farms in each major source group	Total (dollars)	Average per farm reporting (dollars)	Percent of income from all sources
All farms with products sold, traded, or used by farm households ¹ -----	5,968,755	100.0	7,813,644,567	1,309	100.0	5,260,889,098	87.3	2,647,851	44.4	1,118,192,799	422	14.3
Livestock and livestock products farms-----	1,502,989	26.6	3,459,935,991	2,186	44.3	2,277,398,645	65.8	1,233,639	77.9	907,091,012	735	26.2
Livestock farms-----	726,162	12.2	1,838,270,543	2,529	23.5	1,223,286,943	66.8	510,596	70.3	125,391,617	246	6.8
Livestock products farms-----	856,827	14.4	1,623,665,448	1,895	20.8	1,054,161,702	64.9	723,043	84.4	761,699,395	1,081	48.1
Dairy products farms-----	619,006	10.4	1,214,181,902	1,962	15.6	761,106,226	62.7	619,006	100.0	761,106,226	1,230	62.7
Poultry and poultry products farms-----	217,570	3.7	359,097,849	1,650	4.6	259,760,700	72.3	99,254	45.6	19,592,745	197	5.5
Other livestock products farms-----	20,251	0.3	50,385,697	2,488	0.6	33,294,776	66.1	4,785	23.6	1,000,426	209	2.0
Crop farms-----	2,419,737	40.5	3,627,852,248	1,499	48.4	2,551,184,830	70.3	835,904	34.5	164,358,345	197	4.5
Field crop farms-----	2,186,986	36.6	3,016,168,444	1,379	39.6	2,041,439,191	67.7	795,636	36.4	154,382,076	194	5.1
Vegetable farms-----	80,116	1.4	179,505,260	2,241	2.3	132,148,535	73.6	16,308	20.4	4,564,848	280	2.5
Fruit and nut farms-----	133,685	2.2	300,975,952	2,251	3.8	252,481,349	83.9	22,628	17.1	4,946,357	217	1.6
Horticultural specialty farms-----	18,950	0.3	131,202,802	6,924	1.7	125,095,755	95.3	1,134	6.0	485,084	410	0.4
Forest products farms-----	23,300	0.4	25,939,042	1,113	0.3	15,883,231	60.5	6,728	28.9	1,256,929	187	4.8
Subsistence farms (farms with farm products used by farm households)-----	1,942,729	32.5	639,917,286	380	9.0	416,822,392	59.5	571,580	29.4	45,486,513	80	8.5

¹ Includes farms with usable reports for value of farm products sold, traded, or used by farm households; but excludes 88,502 farms with no products sold, traded, or used by farm households, and also 39,542 unclassified farms.

Conversion factors.—Tables 2 and 13 presents the proportion of milk produced on the farm which enters commercial channels as whole milk and the proportion sold as cream. The difference between 100 percent and the sum of these two percentages gives a very rough approximation of the proportion

consumed on the farm as whole milk or cream, made into butter on the farm, fed to calves, waste, and net errors in conversion factors. The conversion factors used in determining the proportion of milk produced which was sold as cream follow:

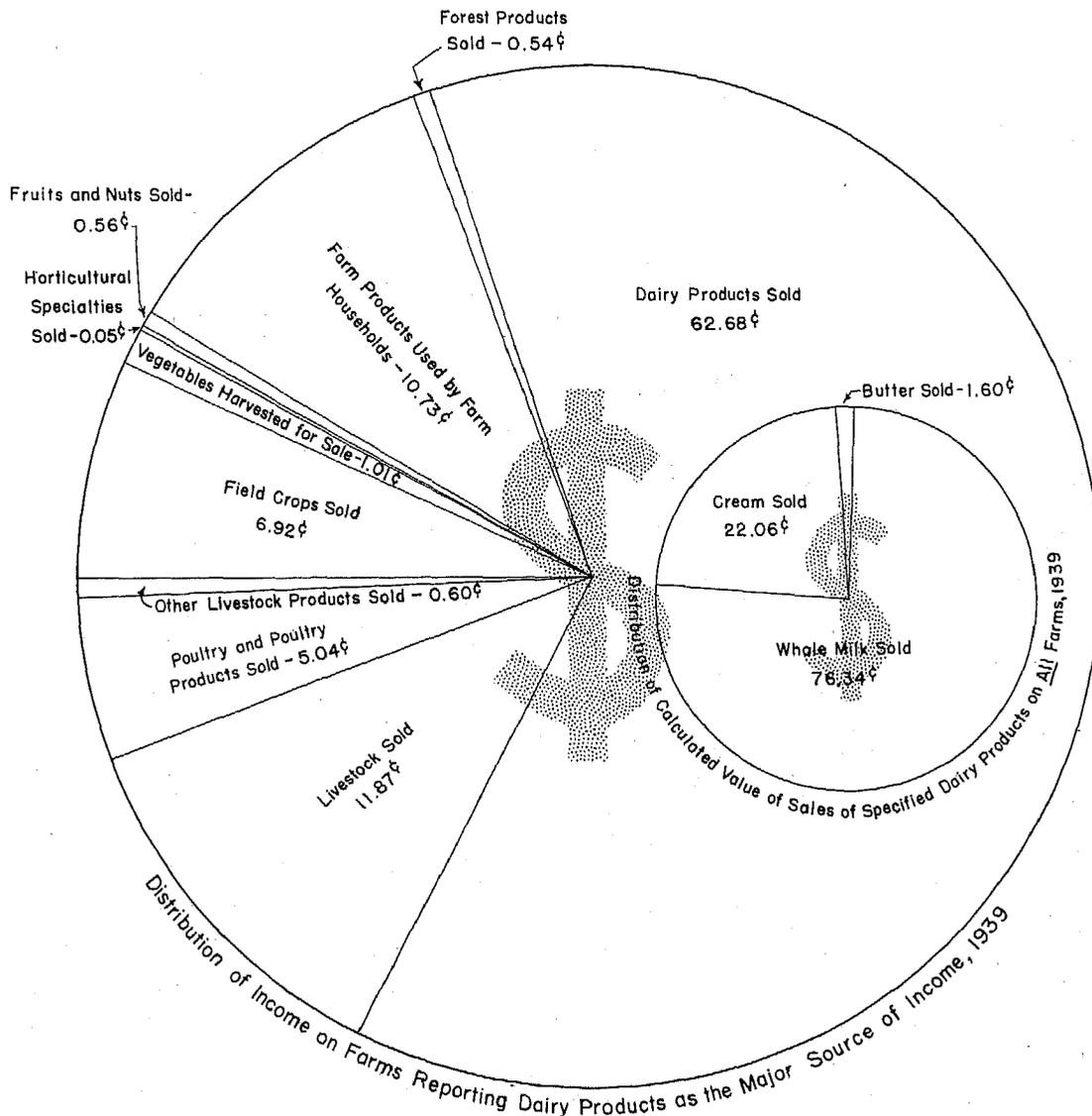
State	Gallons*	State	Gallons*	State	Gallons*
Maine	2.76	Missouri	2.88	Arkansas	2.87
New Hampshire	2.85	North Dakota	3.19	Louisiana	2.83
Vermont	2.69	South Dakota	3.20	Oklahoma	2.81
Massachusetts	2.83	Nebraska	3.19	Texas	2.90
Rhode Island	2.95	Kansas	3.14	Montana	3.07
Connecticut	3.03	Delaware	3.02	Idaho	3.02
New York	3.12	Maryland	3.07	Wyoming	3.13
New Jersey	3.19	Virginia	3.00	Colorado	3.20
Pennsylvania	3.05	West Virginia	2.91	New Mexico	3.03
Ohio	2.86	North Carolina	2.80	Arizona	3.08
Indiana	2.78	South Carolina	2.78	Utah	3.12
Illinois	3.07	Georgia	2.79	Nevada	3.16
Michigan	3.10	Florida	2.76	Washington	2.95
Wisconsin	3.16	Kentucky	2.79	Oregon	2.69
Minnesota	3.16	Tennessee	2.78	California	3.08
Iowa	3.17	Alabama	2.78		
		Mississippi	2.70		

*Gallons of milk skimmed on farms per pound butterfat sold as cream.

At the time these conversion factors were furnished the Bureau of the Census by the United States Department of Agriculture, caution was given that these figures do not have official standing, but were prepared chiefly for the use of the workers in the Department of Agriculture who have need of conversion factors in statistical computations. In transmitting these milk equivalents, the Department stated:

"The figures shown * * * have been derived on the basis of estimated tests of milk skimmed for sale as cream in the various States, together with allowances for losses of fat in skimming and delivery.* * *
 "The estimated butterfat tests of milk skimmed used in arriving at the factors range from 3.8 percent to 4.8 percent, with tests relatively high in the South where Jersey cattle predominate. Losses allowed for butterfat in the skim milk were as low as 1 percent in areas where the volume skimmed per farm is large and where the use of centrifugal separators is universal." * * *

The Dairyman's Dollar - Distribution of Income on Dairy Farms and of Value of Sales of Specified Dairy Products on All Farms, for the United States, 1939



VALUE OF FARM PRODUCTS SOLD, TRADED, OR USED BY FARM HOUSEHOLDS ON FARMS REPORTING DAIRY PRODUCTS AS THE MAJOR SOURCE OF INCOME			
Total	\$1,214,181,902	Vegetables harvested for sale	\$ 12,267,289
Dairy products sold	781,106,226	Fruits and nuts sold	6,761,846
Livestock sold	144,118,058	Horticultural specialties sold	593,152
Poultry and poultry products sold	61,240,492	Forest products sold	6,548,139
Other livestock products sold	7,272,464	Farm products used by farm households	130,310,214
Field crops sold	83,964,022		

CALCULATED VALUE OF SALES OF SPECIFIED DAIRY PRODUCTS ON ALL FARMS			
Total	\$1,201,275,754	Cream sold	\$265,013,045
Whole milk sold	917,084,619	Butter sold	19,178,090

CENSUS OF AGRICULTURE: 1940

TABLE 5.—LIVESTOCK AND LIVESTOCK PRODUCTS—FARMS REPORTING, NUMBER, AND VALUE OF ALL CATTLE AND COWS KEPT FOR MILK AND FOR BEEF, AND FARMS REPORTING, QUANTITY, AND VALUE OF DAIRY PRODUCTS, 1840 TO 1940; WITH SIMILAR DATA FOR OTHER SPECIFIED CLASSES OF LIVESTOCK AND LIVESTOCK PRODUCTS, 1940 AND 1930; FOR THE UNITED STATES

(Figures for divisions and States in tables 7, 8, 9, 10, 11, 14, and 15)

ITEM, DATE OF ENUMERATION, AND AGE	FARMS REPORT- ING		Number	VALUE (DOLLARS)			ITEM AND YEAR	FARMS REPORTING		NUMBER OR QUANTITY		VALUE (DOLLARS)		
	Total	Per- cent of all farms		Total	Per- cent of total value	Aver- age per head		Total	Per- cent of all farms	Total	Aver- age per farm re- port- ing	Total	Aver- age per unit	
TOTAL VALUE OF SPECIFIED LIVESTOCK														
1940—Apr. 1	(¹)	(¹)	xxx	4,553,052,513	100.0	xxx	Specified livestock products— ²⁰ 1939	(¹)	(¹)	xxx	(¹)	2,225,307,432	xxx	
1935—Jan. 1	(¹)	(¹)	xxx	3,418,510,307	100.0	xxx	²¹ 1929	(¹)	(¹)	xxx	(¹)	3,373,947,831	xxx	
1930—Apr. 1 ^{2 3}	(¹)	(¹)	xxx	5,794,113,926	100.0	xxx	Cows milked—	1939	4,663,451	76.5	21,936,556	4.7	(¹)	(¹)
all ages enumer- ated ³	(¹)	(¹)	xxx	6,064,051,430	100.0	xxx	1934	5,236,885	76.9	24,581,669	4.7	(¹)	(¹)	
1925—Jan. 1 ⁴	(¹)	(¹)	xxx	4,858,389,124	100.0	xxx	1929	4,615,529	73.4	21,124,221	4.6	(¹)	(¹)	
1920—Jan. 1 ⁵	(¹)	(¹)	xxx	8,012,876,069	100.0	xxx	1924	4,988,493	78.3	20,899,647	4.2	(¹)	(¹)	
1910—Apr. 15 ^{5 6}	(¹)	(¹)	xxx	4,771,420,142	100.0	xxx	Milk produced—	1939	4,663,431	76.5	11,508,243,769	2,468	(¹)	(¹)
all ages enumer- ated ⁷	(¹)	(¹)	xxx	4,925,173,610	100.0	xxx	1934	5,236,885	76.9	10,666,056,473	2,037	(¹)	(¹)	
1900—June 1 ^{2 8}	(¹)	(¹)	xxx	2,863,778,392	100.0	xxx	1929	4,615,529	73.4	11,052,023,357	2,395	(¹)	(¹)	
all ages enumer- ated ⁹	(¹)	(¹)	xxx	3,075,477,703	100.0	xxx	1924	4,988,493	78.3	²² 9,198,303,635	1,844	(¹)	(¹)	
1890—June 1 ¹⁰	(¹)	(¹)	xxx	2,308,767,573	100.0	xxx	1919	²³ 4,361,360	67.8	²⁴ 7,805,143,792	1,790	(¹)	(¹)	
1880—June 1 ¹¹	(¹)	(¹)	xxx	1,576,884,707	100.0	xxx	1909	(¹)	(¹)	²⁴ 7,466,406,384	(¹)	(¹)	(¹)	
1870—June 1 ¹²	(¹)	(¹)	xxx	1,229,889,610	100.0	xxx	1899	(¹)	(¹)	²⁷ 7,265,804,304	(¹)	(¹)	(¹)	
1860—June 1	(¹)	(¹)	xxx	1,089,329,915	100.0	xxx	1889	(¹)	(¹)	5,210,125,567	(¹)	(¹)	(¹)	
1850—June 1	(¹)	(¹)	xxx	544,180,518	100.0	xxx	Butter churned—	1939	2,920,152	48.1	428,692,339	146	105,696,972	0.25
ALL CATTLE														
1940—Apr. 1—over 3 mo.	4,843,417	79.4	60,674,736	2,598,117,569	57.1	42.82	1934	3,816,340	56.0	558,648,632	146	123,734,400	0.22	
1935—Jan. 1—all ages	5,480,775	80.5	68,284,409	1,367,896,074	40.6	20.33	1929	3,038,100	48.3	542,064,289	178	216,897,575	0.40	
1930—Apr. 1—3 mo. and over	(¹)	(¹)	54,250,300	3,184,593,411	55.0	58.70	1924	(¹)	(¹)	642,803,287	(¹)	228,139,047	0.35	
all ages	4,808,174	76.4	63,895,826	3,303,987,602	54.5	51.71	1919	3,565,305	55.3	707,666,492	198	346,355,759	0.49	
1925—Jan. 1—all ages	(¹)	(¹)	60,780,366	2,019,468,987	41.6	33.24	1899	3,617,366	53.0	1,071,626,056	296	(¹)	(¹)	
1920—Jan. 1—all ages ¹³	5,358,243	83.1	66,639,556	3,651,521,490	45.6	54.80	1889	(¹)	(¹)	1,024,223,468	(¹)	(¹)	(¹)	
1910—Apr. 15—3 mo. and over	(¹)	(¹)	53,997,327	1,447,523,474	30.3	26.81	1879	(¹)	(¹)	777,250,287	(¹)	(¹)	(¹)	
all ages ¹⁴	5,284,916	83.1	61,803,866	1,499,523,807	30.4	24.26	1869	(¹)	(¹)	514,092,683	(¹)	(¹)	(¹)	
1900—June 1—1 yr. and over	(¹)	(¹)	52,403,828	1,337,914,632	46.7	25.53	1859	(¹)	(¹)	458,681,372	(¹)	(¹)	(¹)	
all ages	4,730,480	82.4	67,719,410	1,475,204,633	48.0	21.78	1849	(¹)	(¹)	313,345,306	(¹)	(¹)	(¹)	
1890—June 1—not specified	(¹)	(¹)	57,648,792	(¹)	(¹)	(¹)	Whole milk sold—	1939	953,898	15.6	5,378,407,901	5,635	617,084,619	0.17
1880—June 1—not specified ¹⁵	(¹)	(¹)	39,675,533	(¹)	(¹)	(¹)	1929	893,431	14.2	4,456,658,767	4,987	1,036,650,035	0.23	
1870—June 1—not specified	(¹)	(¹)	25,820,608	(¹)	(¹)	(¹)	1924	(¹)	(¹)	²⁵ 2,666,611,999	(¹)	555,268,850	0.21	
1860—June 1—not specified	(¹)	(¹)	25,620,019	(¹)	(¹)	(¹)	1919	710,694	11.0	2,529,331,413	3,559	717,360,222	0.28	
1850—June 1—not specified	(¹)	(¹)	18,378,907	(¹)	(¹)	(¹)	1909	498,916	7.8	1,937,255,864	3,883	252,436,757	0.13	
1840—June 1—not specified	(¹)	(¹)	14,971,586	(¹)	(¹)	(¹)	1899	(¹)	(¹)	2,134,850,207	(¹)	184,817,119	0.09	
COWS KEPT MAINLY FOR MILK PRODUCTION														
1940—Apr. 1—27 mo. and over	4,644,317	76.2	24,074,424	1,350,611,268	29.7	56.10	Cream sold:							
1930—Apr. 1—27 mo. and over	4,452,936	70.8	20,498,955	1,572,719,948	27.1	76.72	Butterfat con- tent—	1939	1,460,383	24.0	1,090,261,486	747	265,013,045	0.24
1925—Jan. 1—2 yr. and over	3,728,587	58.5	17,644,867	912,531,626	18.8	51.72	As butterfat—	1929	1,556,487	24.8	1,179,905,974	758	538,795,009	0.46
1920—Jan. 1—2 yr. and over	4,461,296	69.2	19,675,297	1,507,513,140	18.8	76.62	Not as butter- fat—	1929	68,030	1.1	15,846,164	233	26,139,341	1.65
1910—Apr. 15—2 yr. and over Jan. 1 ¹⁶	(¹)	(¹)	17,125,471	634,704,097	13.3	37.06	As butterfat—	1924	(¹)	(¹)	1,061,062,363	(¹)	415,311,369	0.39
15½ mo. and over	5,140,869	80.8	20,625,432	706,236,307	14.3	34.24	As cream—	1924	(¹)	(¹)	45,755,694	(¹)	62,058,512	1.36
1890—June 1—milk cows	(¹)	(¹)	16,511,950	(¹)	(¹)	(¹)	As butterfat—	1919	875,200	13.6	532,244,072	608	303,552,156	0.57
1880—June 1—milk cows	(¹)	(¹)	12,443,120	(¹)	(¹)	(¹)	As cream—	1919	445,611	6.9	82,247,580	185	111,905,829	1.36
1870—June 1—milk cows	(¹)	(¹)	8,935,332	(¹)	(¹)	(¹)	As butterfat—	1909	361,128	5.7	305,662,587	846	82,311,511	0.27
1860—June 1—milk cows	(¹)	(¹)	8,585,735	(¹)	(¹)	(¹)	As cream—	1909	164,117	2.6	54,933,583	335	37,655,047	0.69
1850—June 1—milk cows	(¹)	(¹)	6,385,094	(¹)	(¹)	(¹)	As cream—	1899	(¹)	(¹)	20,768,662	(¹)	8,838,776	0.43
COWS KEPT MAINLY FOR BEEF PRODUCTION														
1940—Apr. 1—27 mo. and over	554,592	9.1	9,448,761	434,541,306	9.5	45.99	Butter sold—	1939	389,316	6.4	76,558,285	196	19,178,090	0.25
1930—Apr. 1—27 mo. and over	416,042	6.6	7,836,994	478,576,081	8.3	61.04	1929	643,994	10.2	135,045,358	210	56,056,376	0.42	
1925—Jan. 1—2 yr. and over	(¹)	(¹)	14,908,978	460,524,479	9.5	30.89	1919	1,269,814	19.7	207,859,564	164	106,973,742	0.51	
1920—Jan. 1—2 yr. and over	1,041,052	16.1	12,624,996	739,153,095	9.2	58.55	1909	1,785,408	28.1	415,080,489	232	100,378,123	0.24	
1910—Apr. 15—15½ mo. and over ¹⁷	1,444,733	22.7	12,028,682	269,160,183	5.6	22.39	1899	(¹)	(¹)	518,042,767	(¹)	86,570,973	0.17	
1900—June 1—2 yr. and over ¹⁷	(¹)	(¹)	11,559,194	271,302,682	9.5	23.47								

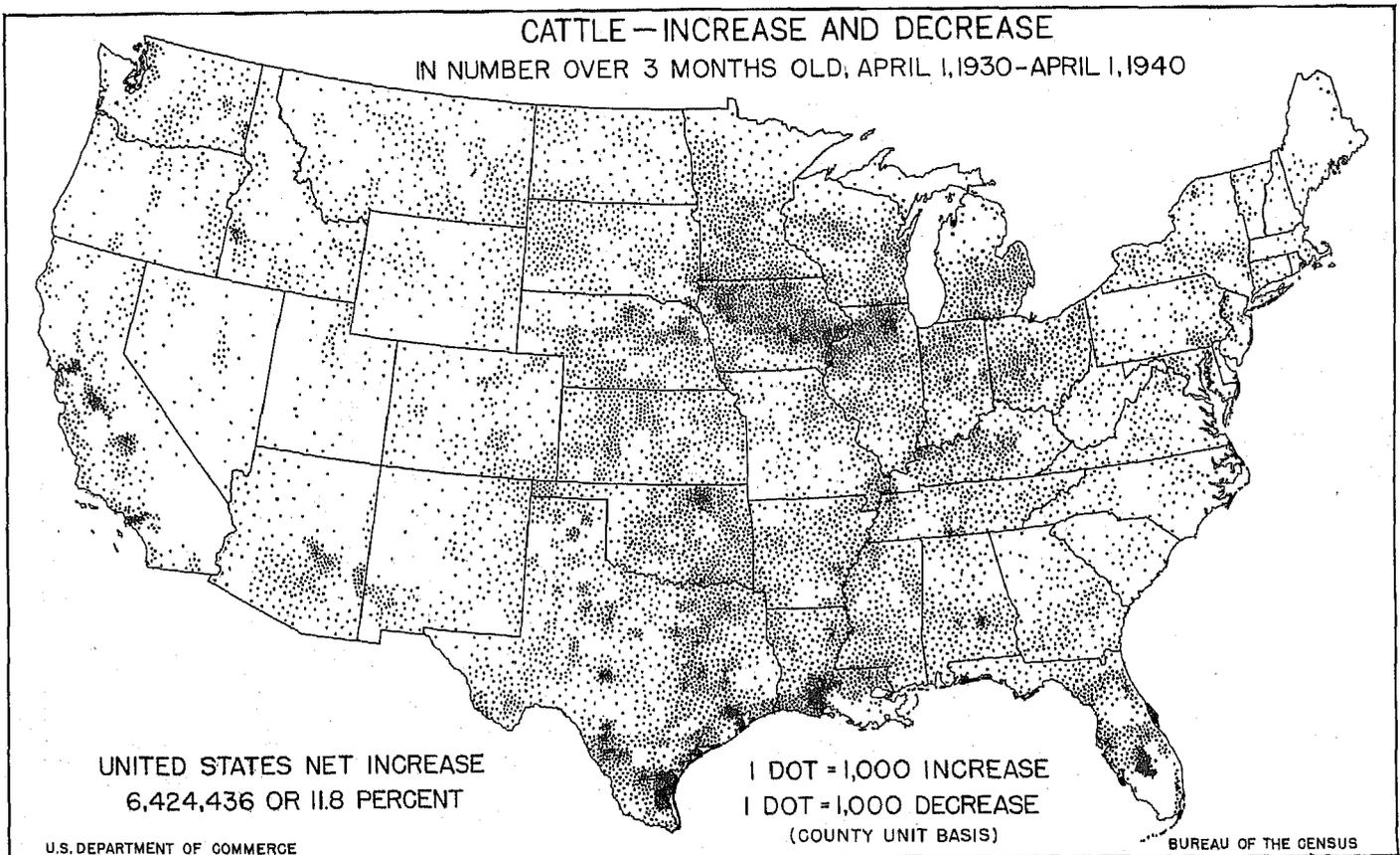
See footnotes at end of table.

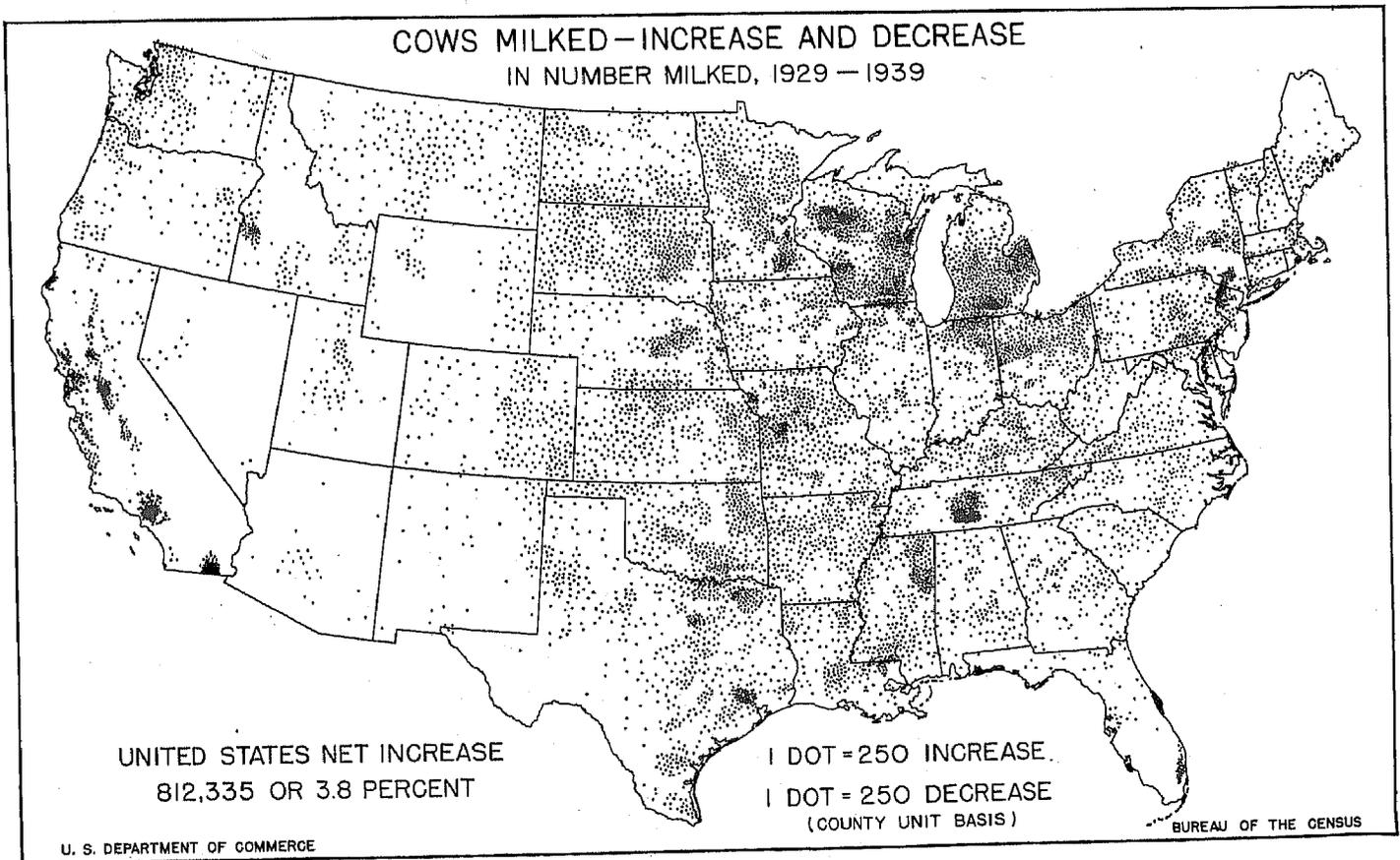
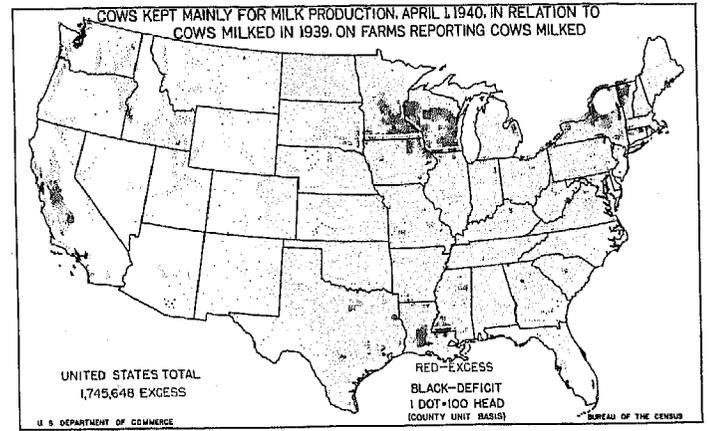
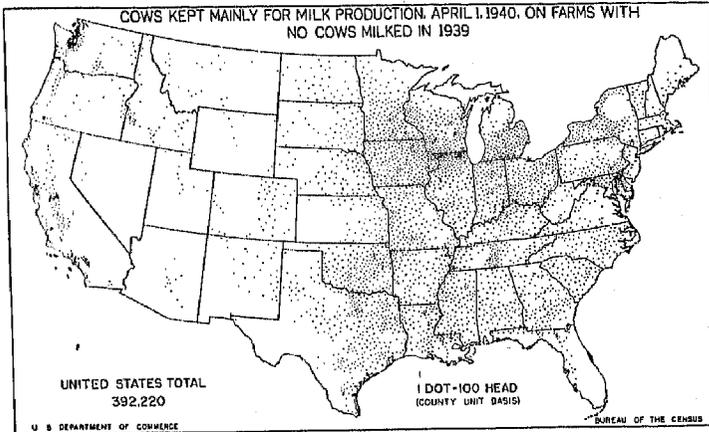
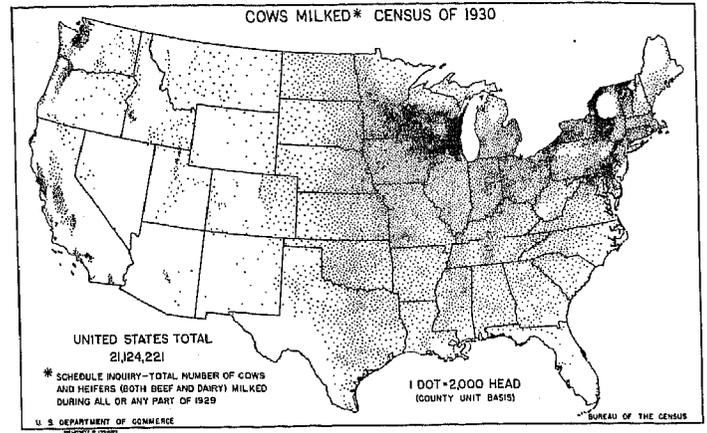
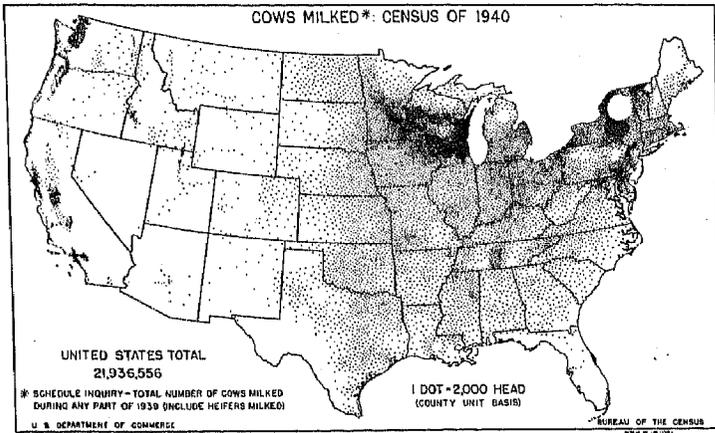
TABLE 5.—LIVESTOCK AND LIVESTOCK PRODUCTS—FARMS REPORTING, NUMBER, AND VALUE OF ALL CATTLE AND COWS KEPT FOR MILK AND FOR BEEF, AND FARMS REPORTING, QUANTITY, AND VALUE OF DAIRY PRODUCTS, 1840 TO 1940; WITH SIMILAR DATA FOR OTHER SPECIFIED CLASSES OF LIVESTOCK AND LIVESTOCK PRODUCTS, 1940 AND 1930; FOR THE UNITED STATES—Continued

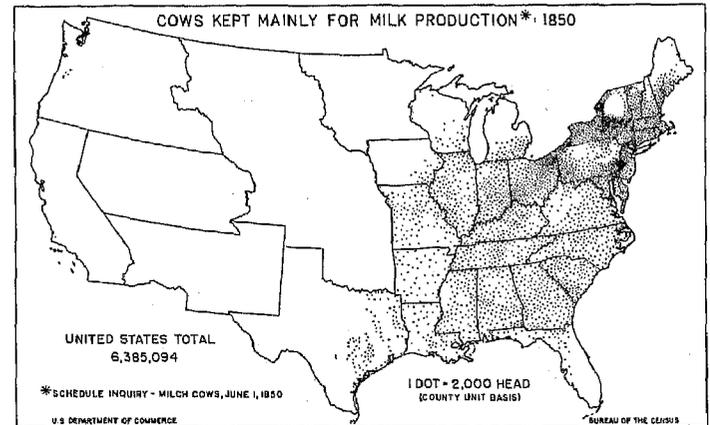
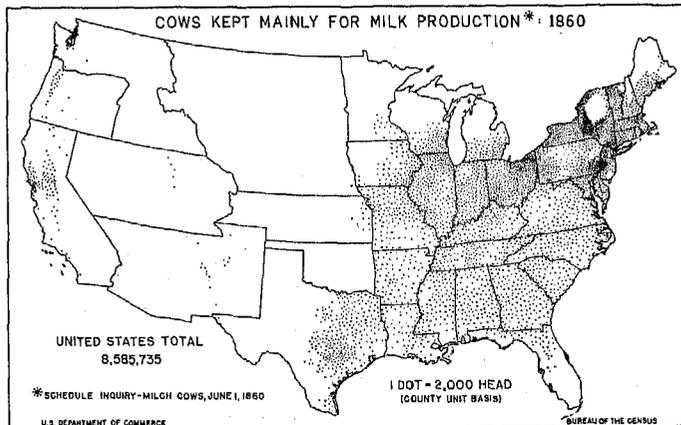
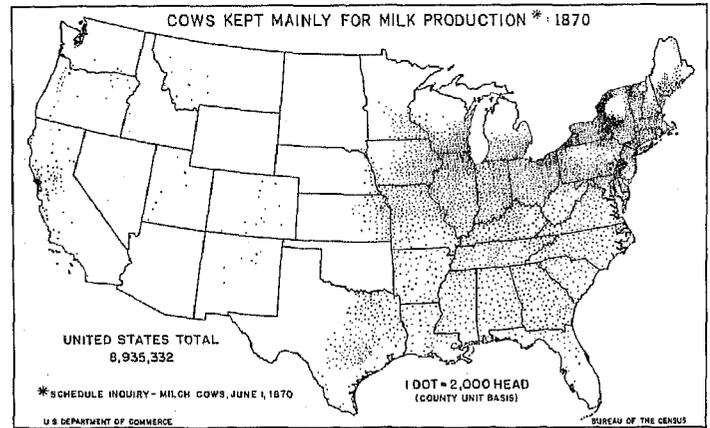
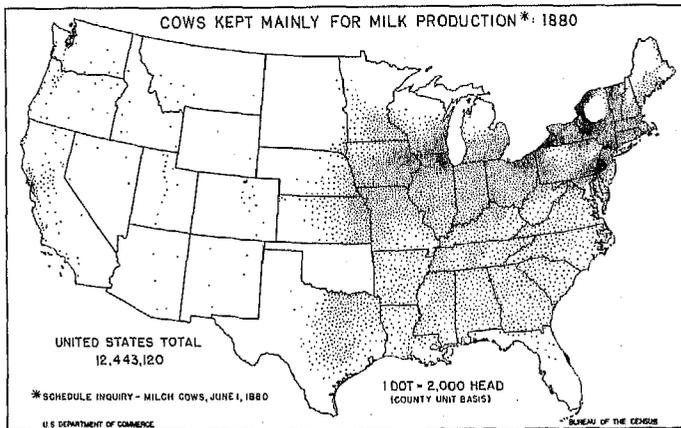
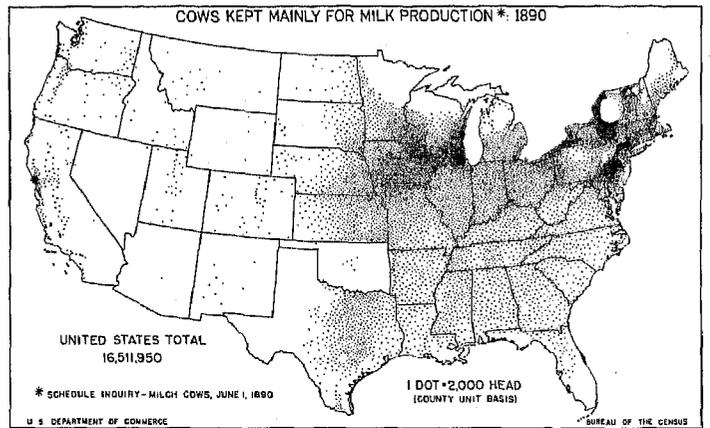
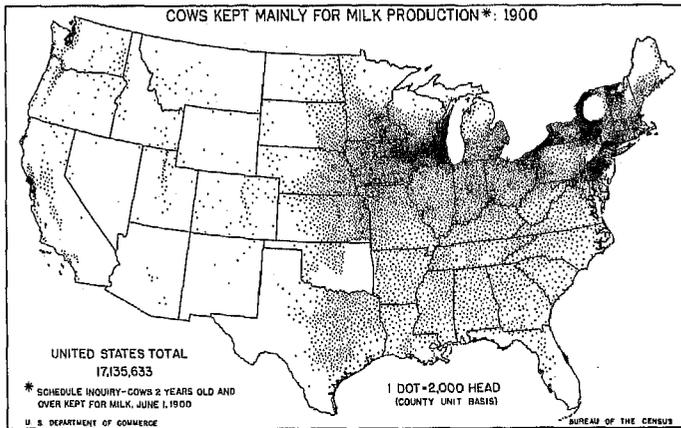
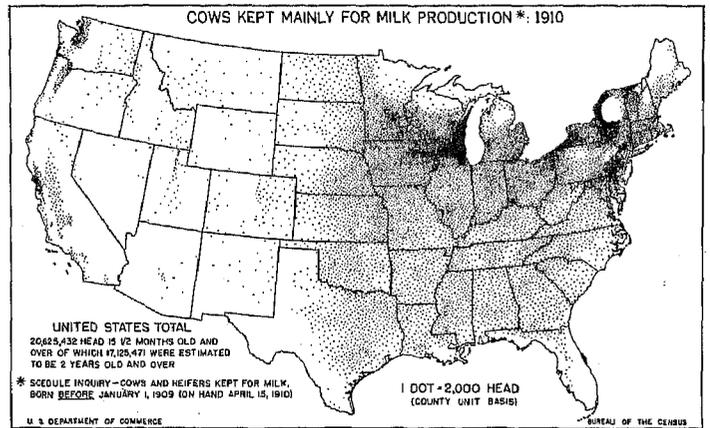
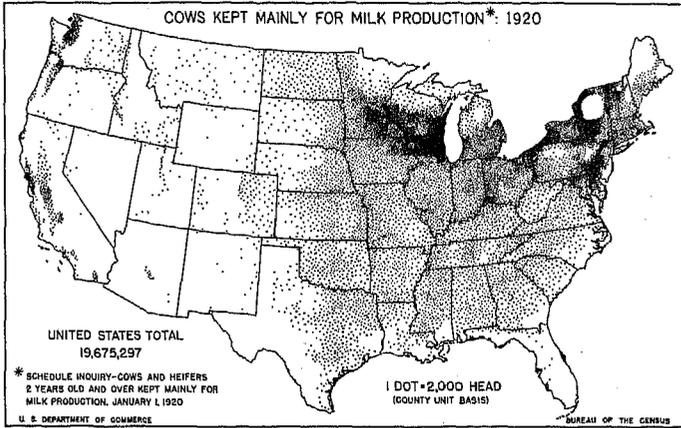
(Figures for divisions and States in tables 7, 8, 9, 10, 11, 14, and 15)

ITEM, DATE OF ENUMERATION, AND AGE	FARMS REPORTING		Number	VALUE (DOLLARS)			ITEM AND YEAR	FARMS REPORTING		NUMBER OR QUANTITY		VALUE (DOLLARS)	
	Total	Per cent of all farms		Total	Per cent of total value	Average per head		Total	Per cent of all farms	Total	Average per farm reporting	Total	Average per unit
OTHER CLASSES OF LIVESTOCK, 1940-30 (Data for other years in ch. VII, vol. III)													
HORSES AND/OR MULES													
1940-Apr. 1-over 3 mo.	4,362,144	71.5	13,931,531	1,201,948,398	25.4	86.28	Wool produced—1939	501,956	8.2	Pounds 289,772,976	577	65,411,960	0.23
1930-Apr. 1-3 mo. and over	(¹)	(¹)	18,737,524	1,345,728,201	23.2	71.82	1929	472,917	7.5	295,964,506	628	89,415,164	0.30
HOGS AND PIGS													
1940-Apr. 1-over 4 mo.	3,768,675	61.8	34,037,253	284,636,713	6.3	8.36	Mohair produced—1939	21,557	0.4	Pounds 15,561,352	709	7,238,098	0.47
1930-Apr. 1-3 mo. and over	(¹)	(¹)	52,793,628	564,160,265	9.7	17.20	1929	(¹)	(¹)	14,460,572	(¹)	8,796,437	0.47
SHEEP AND LAMBS													
1940-Apr. 1-over 6 mo.	584,935	9.6	40,129,261	240,189,944	5.3	5.99	All poultry raised—1939	4,713,520	77.3	(¹)	xxx	435,262,872	xxx
1930-Apr. 1-6 mo. and over	(¹)	(¹)	41,780,146	343,154,271	5.9	8.21	1929	(¹)	(¹)	(¹)	xxx	894,733,025	(¹)
GOATS OF ALL KINDS													
1940-Apr. 1-over 4 mo.	127,156	2.1	4,175,047	11,944,786	0.3	2.85	Chickens raised—1939	4,674,462	76.7	Number 660,565,663	141	569,107,379	0.54
1930-Apr. 1—all ages	112,864	1.8	4,821,294	19,320,072	0.3	4.01	1929	5,293,208	84.2	673,092,052	127	581,110,136	0.86
ALL POULTRY													
1940	5,167,768	84.8	xxx	199,656,215	4.4	xxx	Chicken eggs produced—1939	4,875,472	80.0	Dozen 2,381,091,510	490	415,470,669	0.17
1940-Apr. 1-over 4 mo.	5,150,055	84.5	387,949,145	189,085,762	4.2	0.56	1929	(¹)	(¹)	2,689,719,156	(¹)	789,261,156	0.30
1930-Apr. 1-over 3 mo.	5,372,597	85.4	378,878,281	321,624,749	5.3	0.85	Honey produced—1939	172,723	2.8	Pounds 66,662,236	387	5,802,621	0.09
1940-Apr. 1	265,158	4.3	182,276,881	7,325,527	0.2	183.22	1929	323,989	5.2	83,546,415	258	12,260,089	0.15
1930-Apr. 1	469,688	7.3	183,107,755	13,632,266	0.2	184.39	Felts taken from fur animals in captivity: Silver fox—1939	2,444	(¹⁸)	Number 261,070	107	5,886,548	22.59
FUR ANIMALS IN CAPTIVITY													
1940-Apr. 1—Female silver fox over 3 mo.	2,655	(¹⁸)	103,301	4,938,609	0.1	47.61	Mink—1939	2,027	(¹⁹)	291,324	144	2,430,208	8.34
1940-Apr. 1—Female mink over 3 mo.	2,754	(¹⁸)	161,457	4,294,752	0.1	26.60							

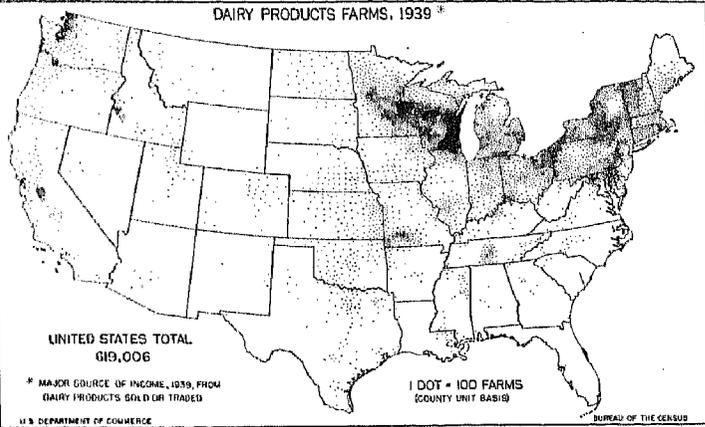
¹ Not available. ² Excludes young animals when enumerated separately. ³ Includes value of asses and burros, amounting to \$1,880,571. ⁴ Includes value of livestock not reported, estimated at \$29,161,789. ⁵ Includes value of asses and burros valued at \$8,198,242. ⁶ Includes value of asses and burros valued at \$13,200,112 and excludes buffaloes, deer, etc., valued at \$76,882. ⁷ Includes value of asses and burros valued at \$13,200,112 and buffaloes, deer, etc., valued at \$76,882. ⁸ Includes value of asses and burros valued at \$5,811,184 and excludes buffaloes, deer, etc., valued at \$294,212. ⁹ Includes value of asses and burros valued at \$5,811,184 and buffaloes, deer, etc., valued at \$294,212. ¹⁰ Includes estimated value of livestock on ranges of \$100,000,000 for 289,318 horses, 19,253 mules and asses, 5,851,640 cattle, 4,940,948 sheep, and 15,704 swine. ¹¹ Includes \$76,500,000 for livestock on ranches and ranges estimated as 3,750,022 cattle, 7,000,000 sheep and 2,090,970 swine. ¹² Value in gold. ¹³ Includes 283 farms reporting 68,671 cattle, valued at \$2,488,846 not classified by age or sex. ¹⁴ Includes 1,003,786 cattle, valued at \$21,031,774, not classified by age or sex. ¹⁵ Includes 3,750,022 cattle on ranches and ranges computed by special agents assigned to range territory for this purpose. ¹⁶ Number of cows and heifers 2 years old and over Jan. 1, 1910, kept for milk production as estimated for 1920 reports. ¹⁷ Cows not kept for milk. ¹⁸ Hives of bees. ¹⁹ Less than one-tenth of 1 percent. ²⁰ For 1939, includes whole milk and cream sold; butter churned; wool, mohair, chicken eggs, and honey produced; poultry raised; and pelts taken from silver fox and mink kept in captivity. ²¹ For 1929, includes whole milk and cream sold; butter churned; wool, mohair, chicken eggs, and honey produced; and specified poultry raised. ²² Including estimates for incomplete reports. ²³ Figure given represents farms reporting production of milk, as enumerated; figure for milk production, however, includes estimates amounting to 911,418,374 gallons for 681,820 farms which reported dairy cows on hand, but did not report milk. Data not secured for farms reporting cows milked. ²⁴ Includes 1,852,706,910 gallons estimated as produced on farms which reported cows kept for milk, but no milk produced. ²⁵ Whole milk sold "not on a butterfat basis." ²⁶ Includes chickens, turkeys, ducks, and geese raised.



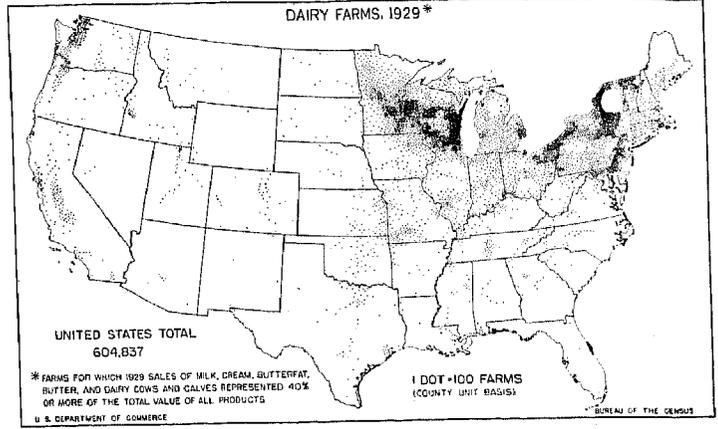




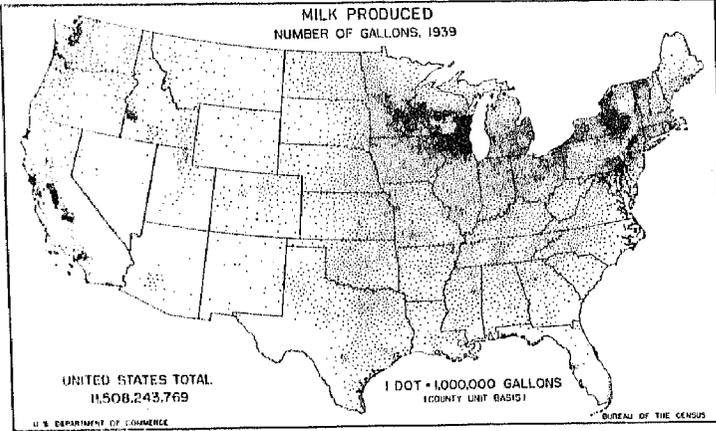
DAIRY PRODUCTS FARMS, 1939*



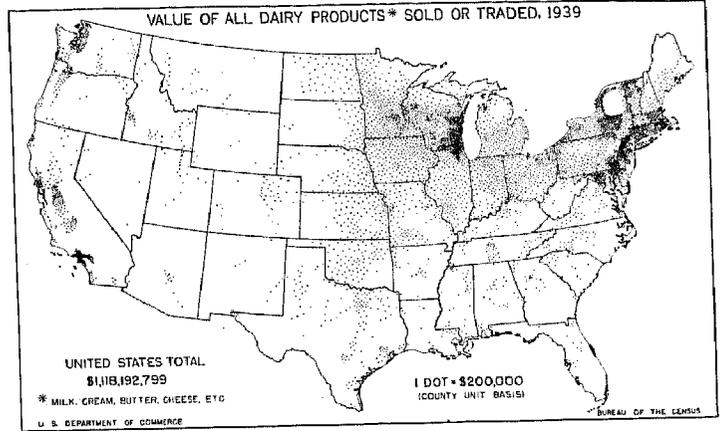
DAIRY FARMS, 1929*



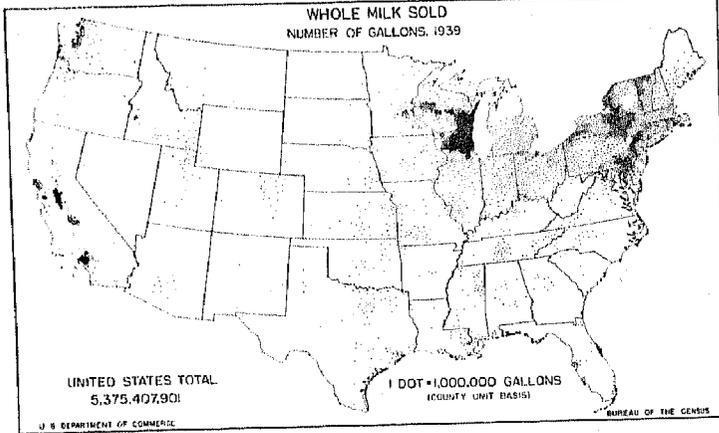
MILK PRODUCED
NUMBER OF GALLONS, 1939



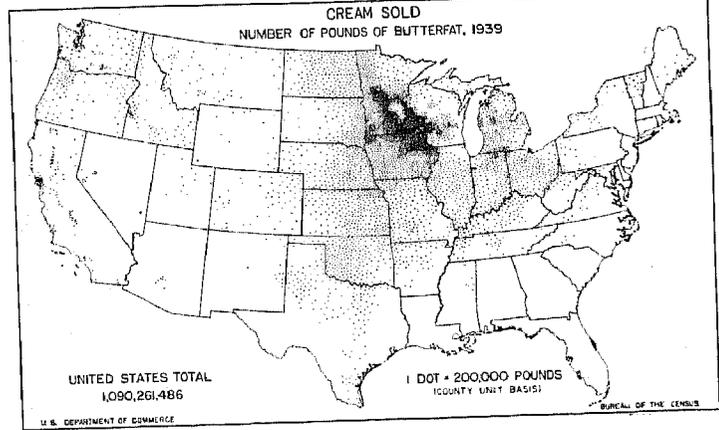
VALUE OF ALL DAIRY PRODUCTS* SOLD OR TRADED, 1939



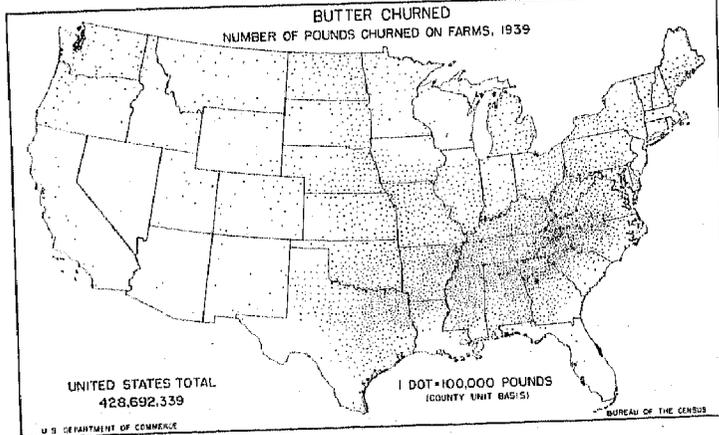
WHOLE MILK SOLD
NUMBER OF GALLONS, 1939



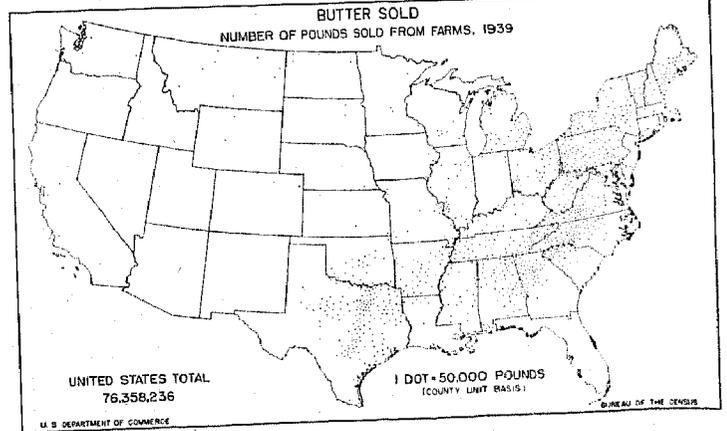
CREAM SOLD
NUMBER OF POUNDS OF BUTTERFAT, 1939

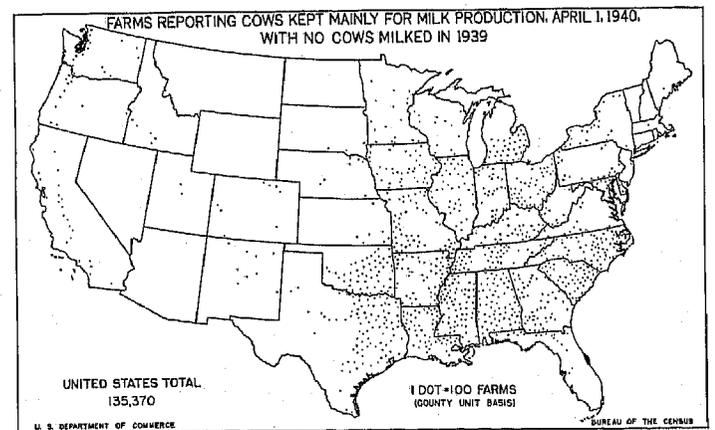
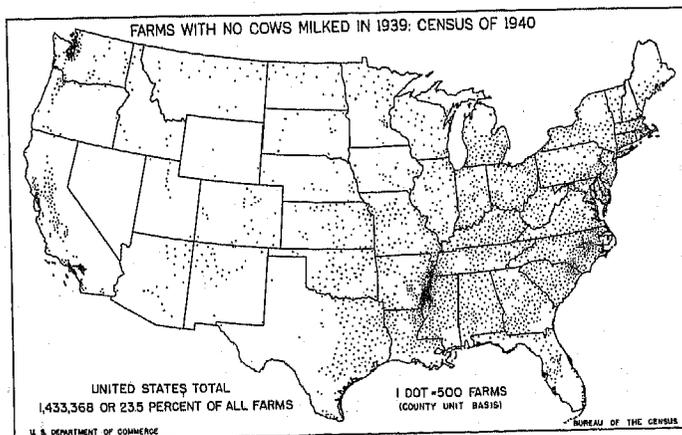
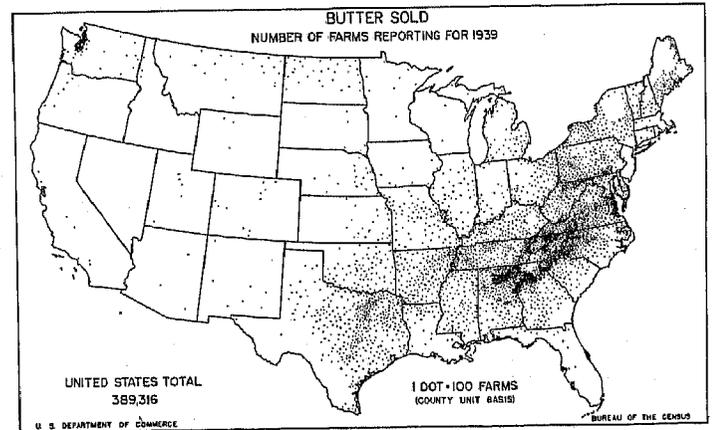
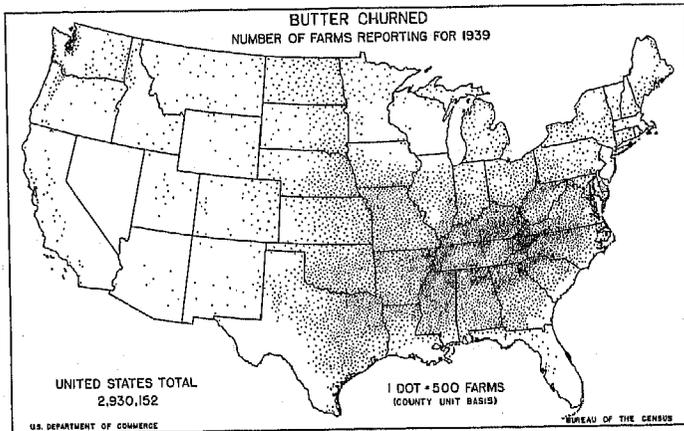
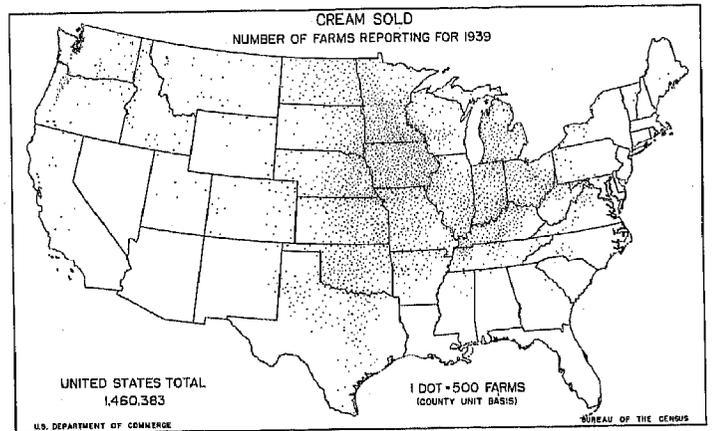
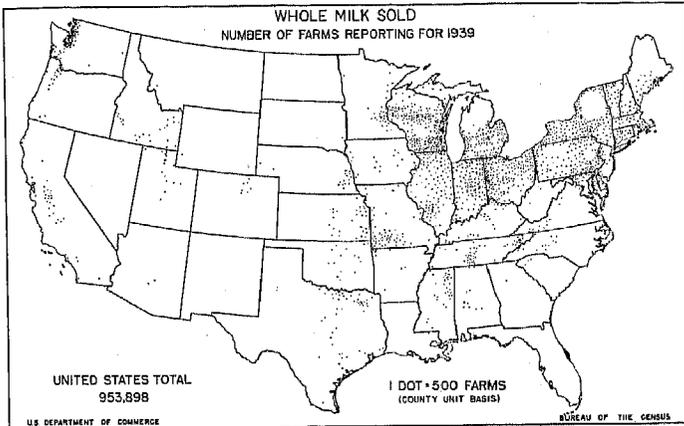
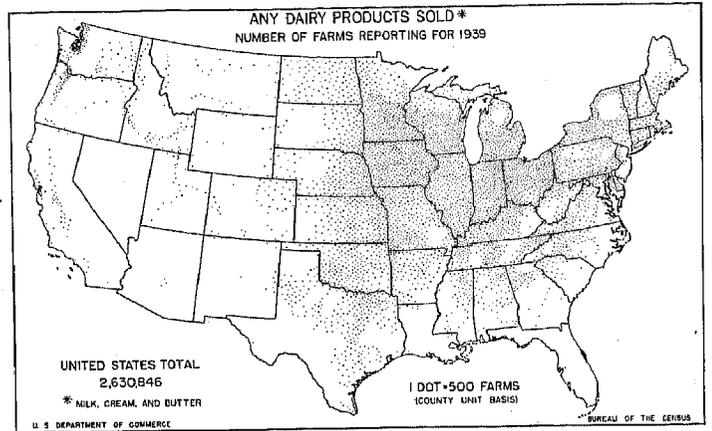
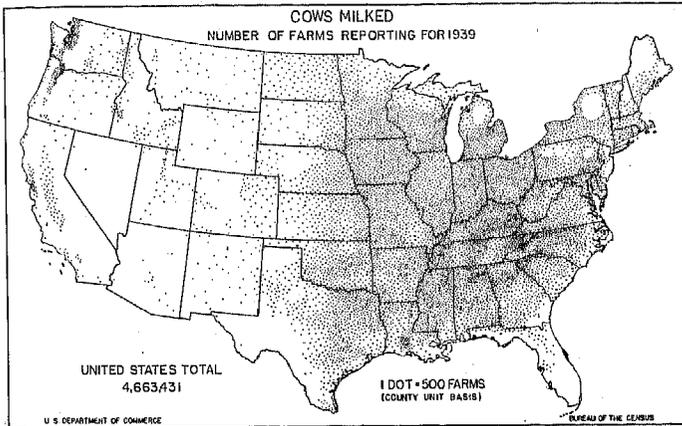


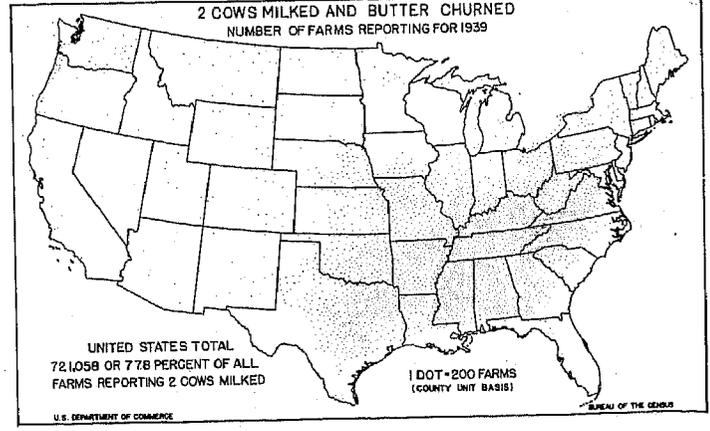
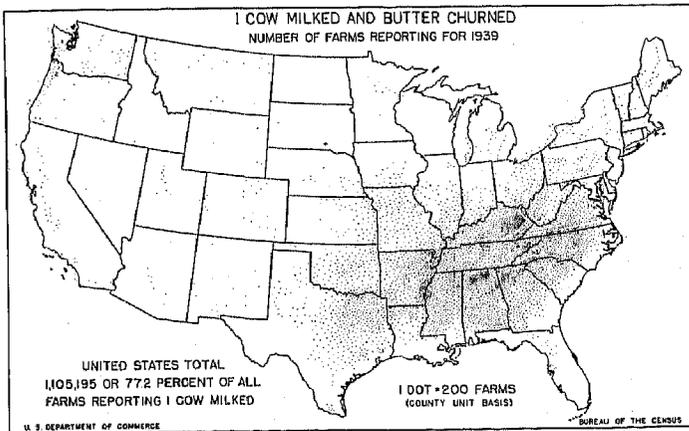
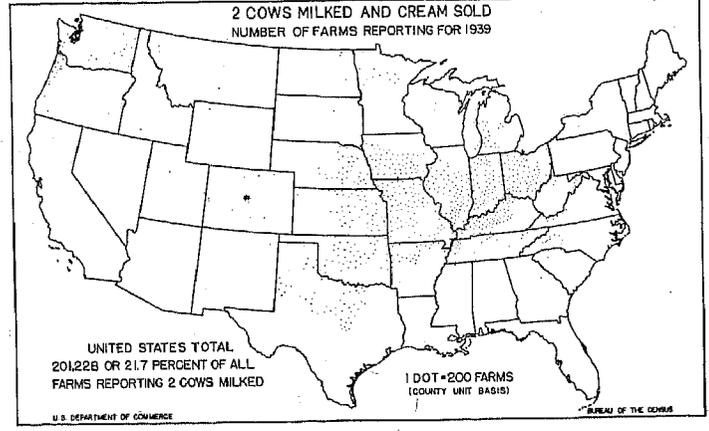
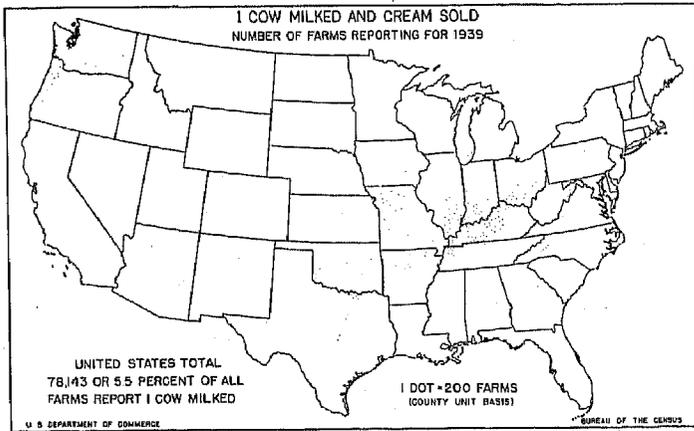
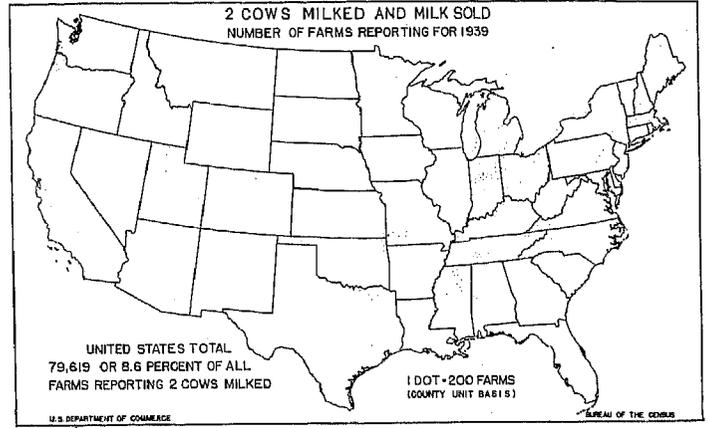
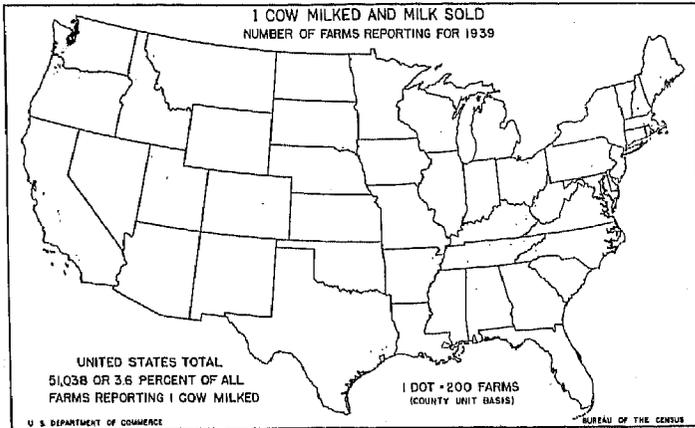
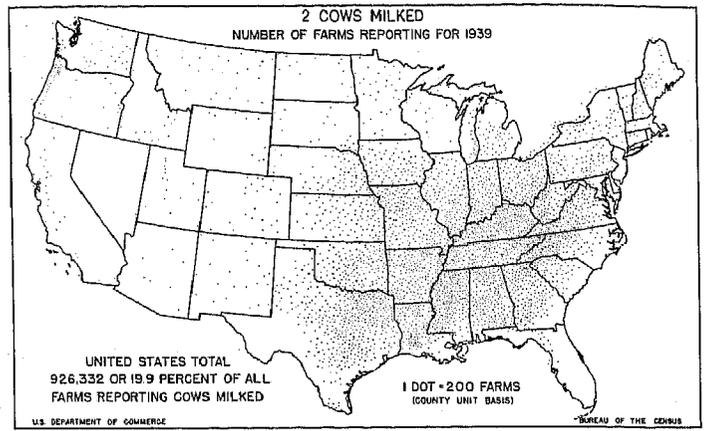
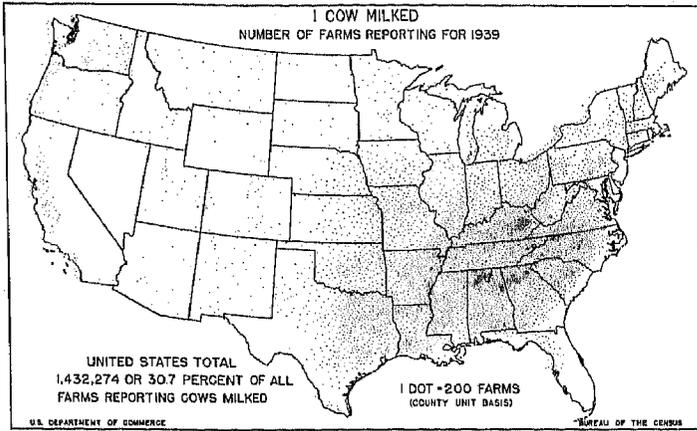
BUTTER CHURNED
NUMBER OF POUNDS CHURNED ON FARMS, 1939

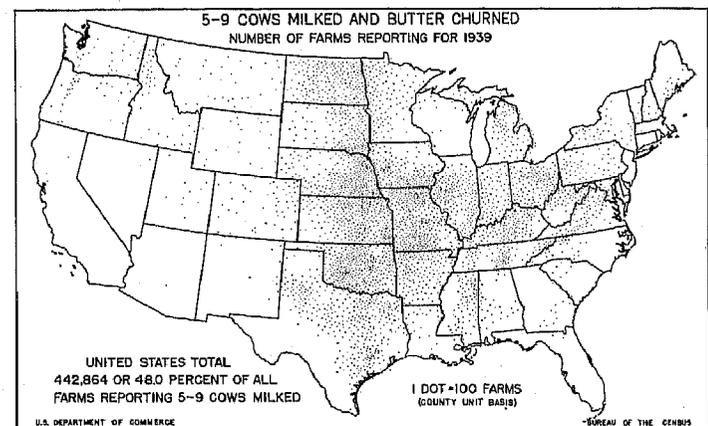
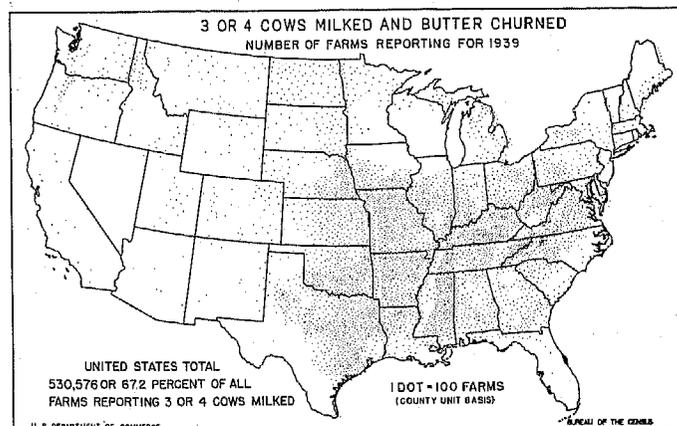
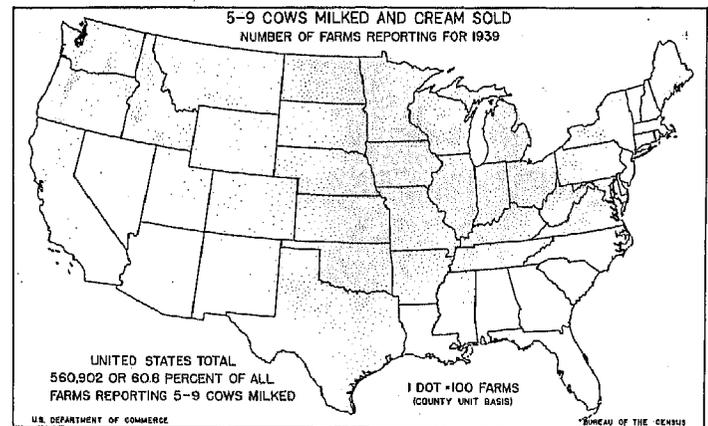
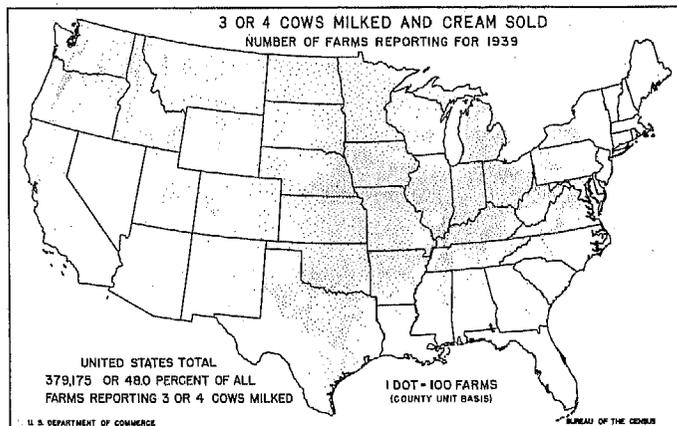
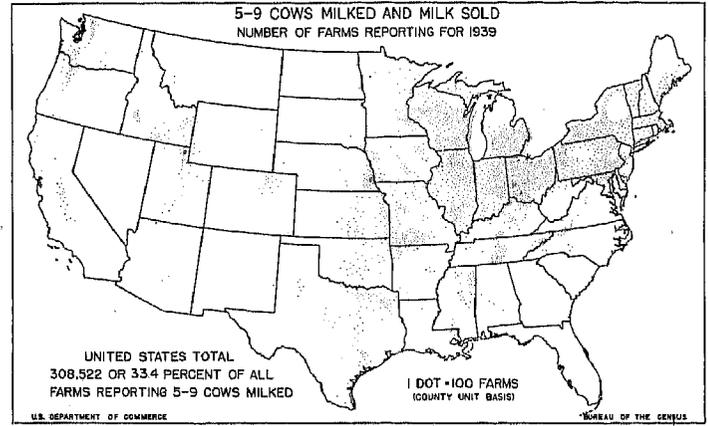
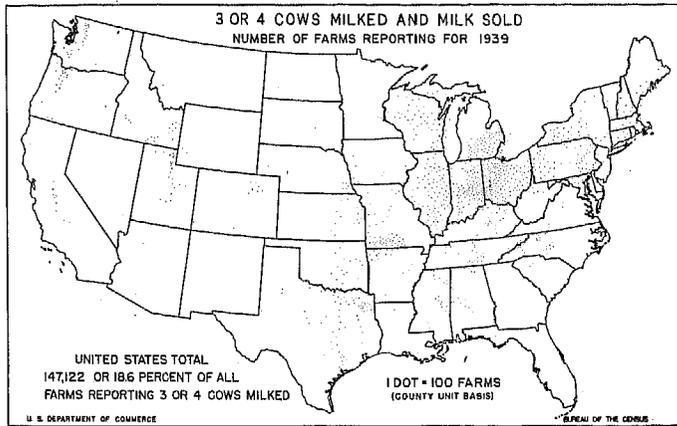
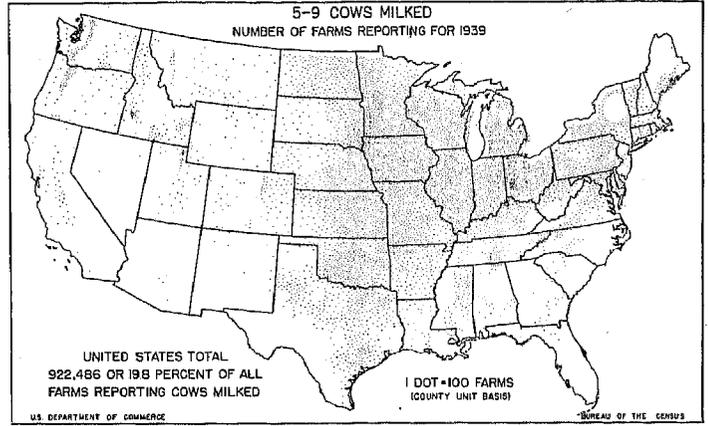
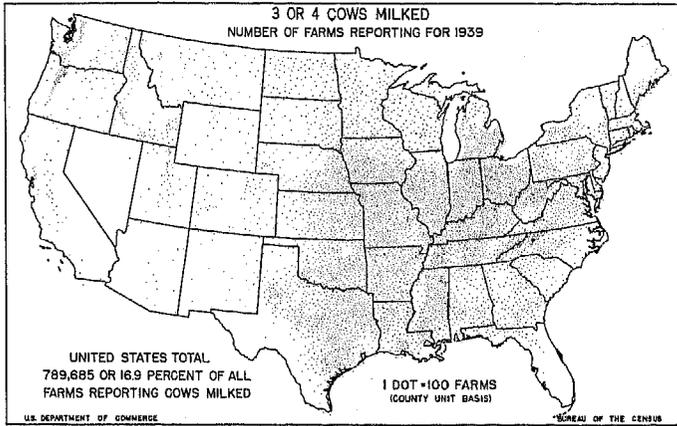


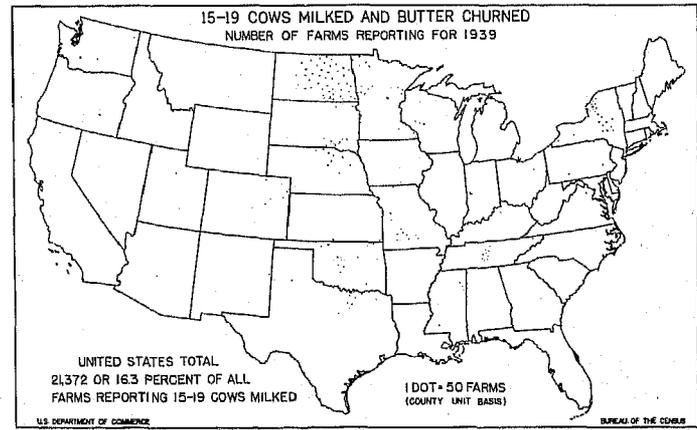
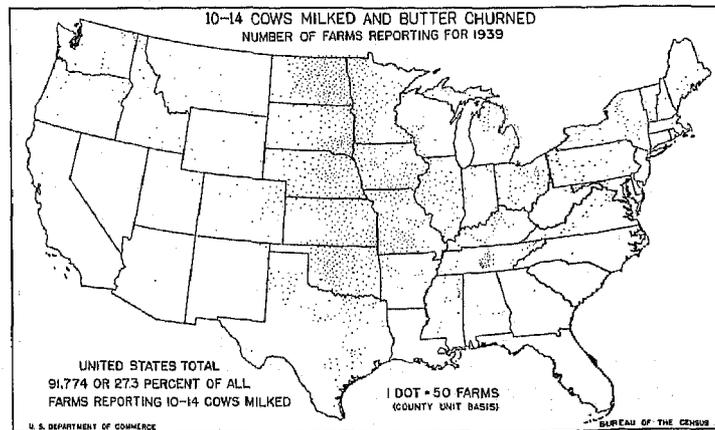
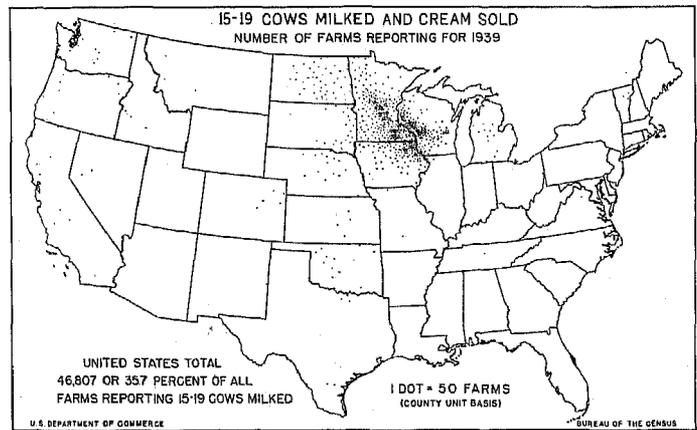
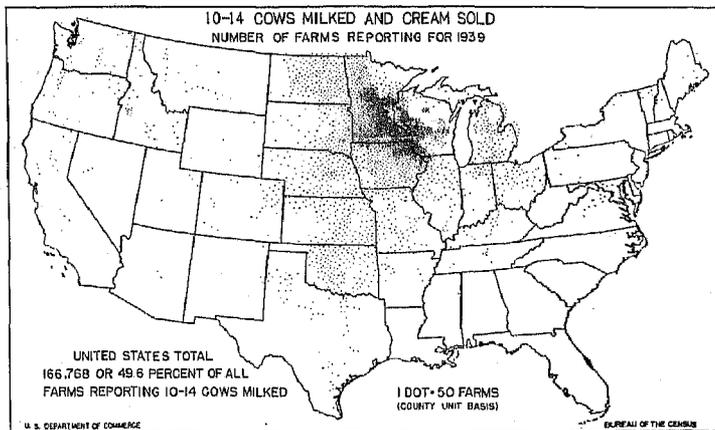
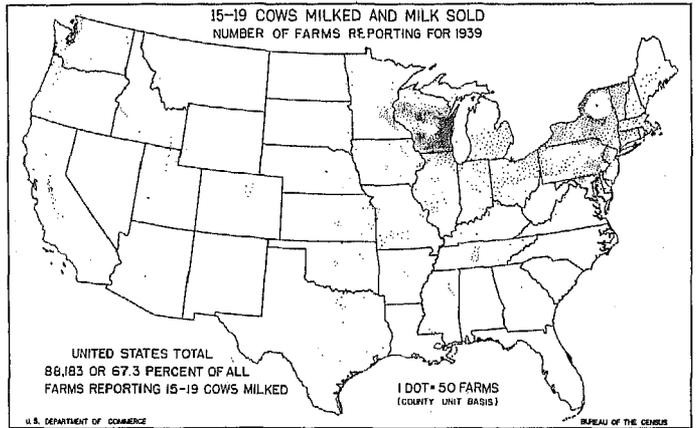
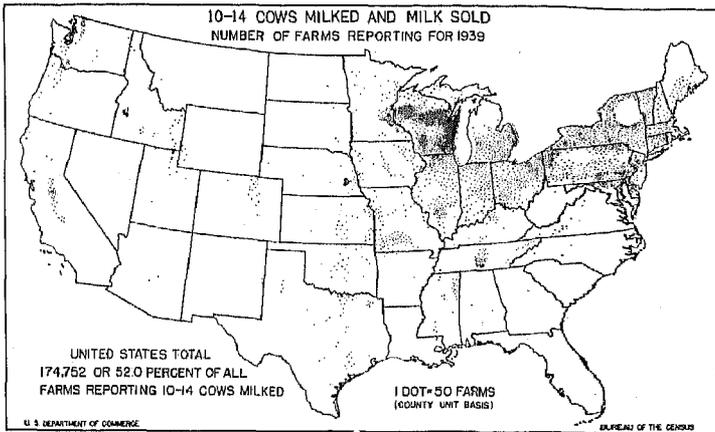
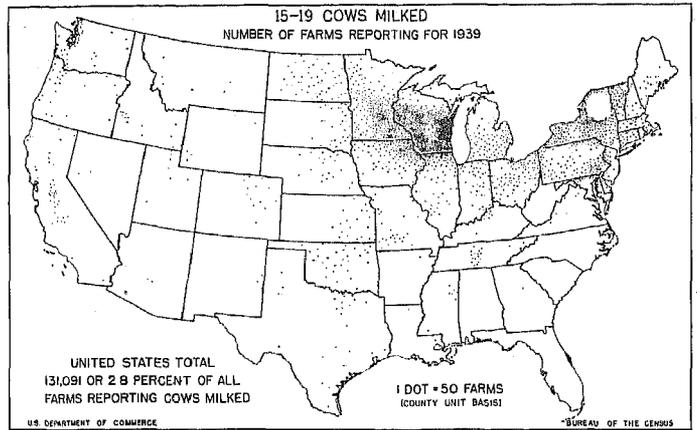
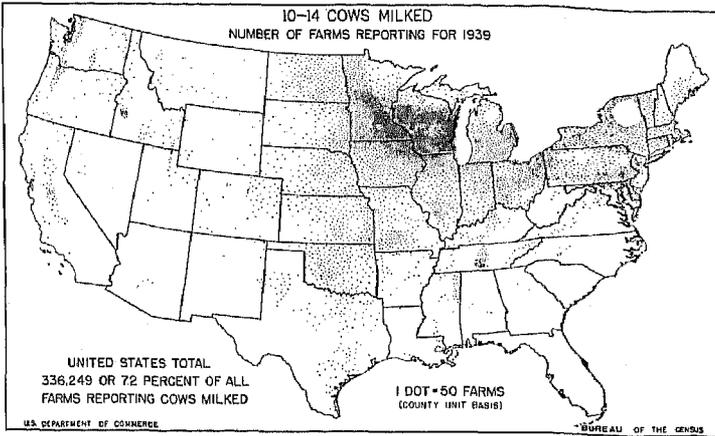
BUTTER SOLD
NUMBER OF POUNDS SOLD FROM FARMS, 1939

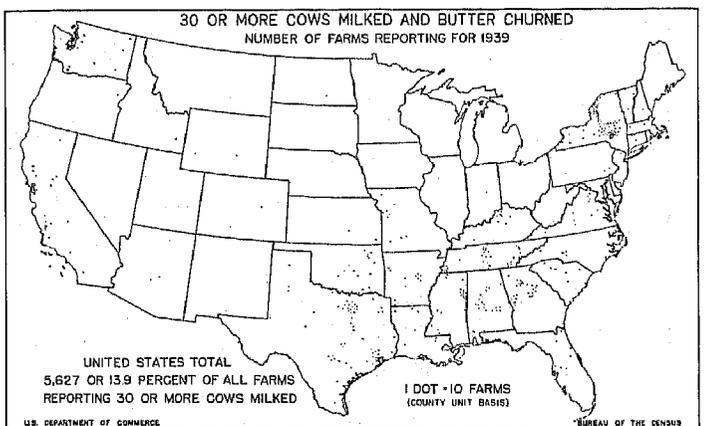
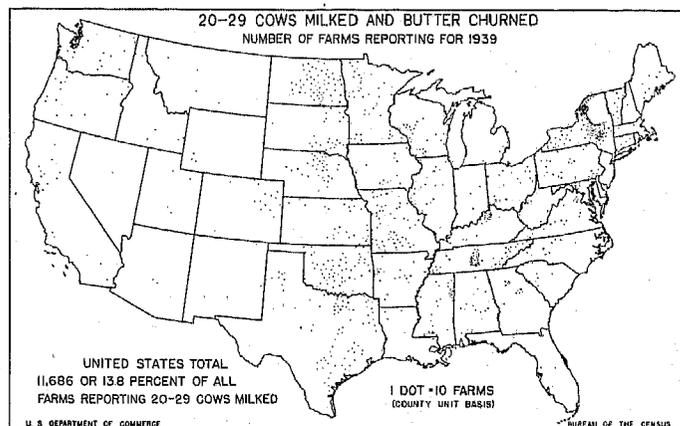
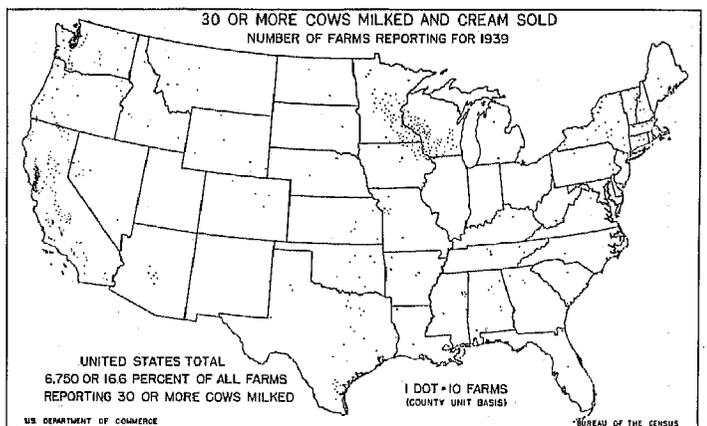
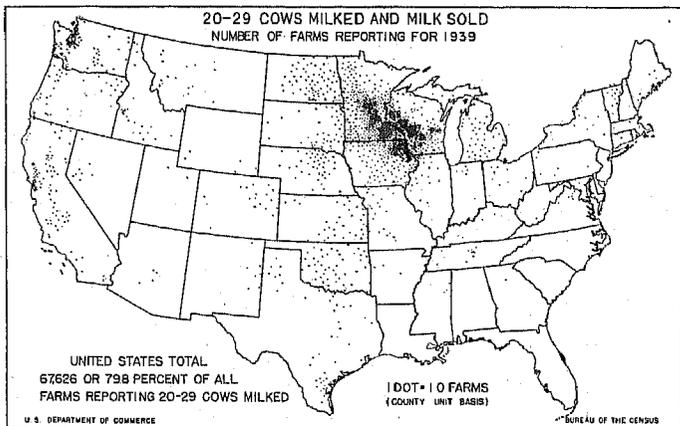
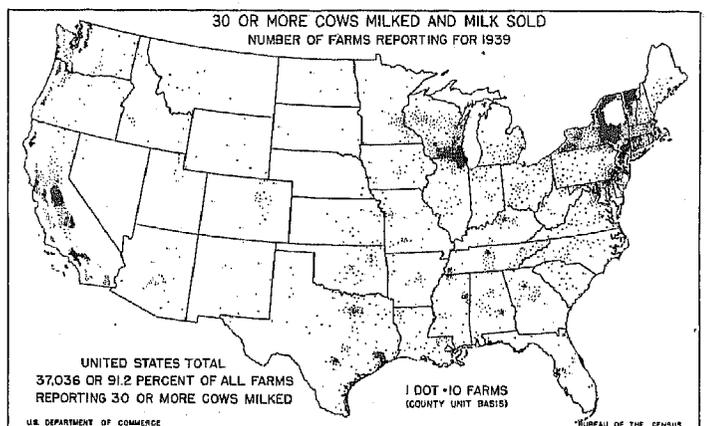
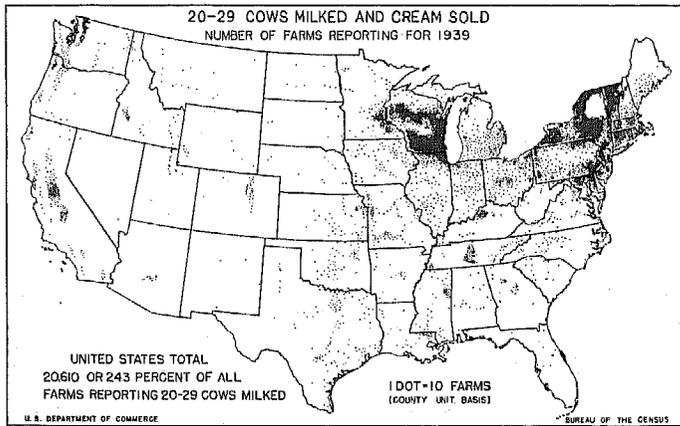
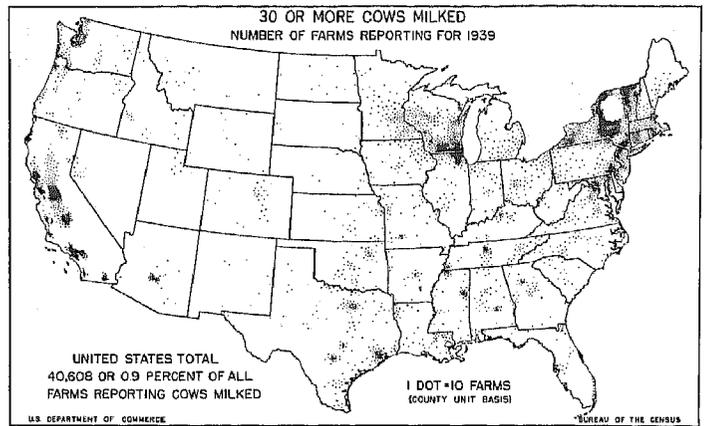
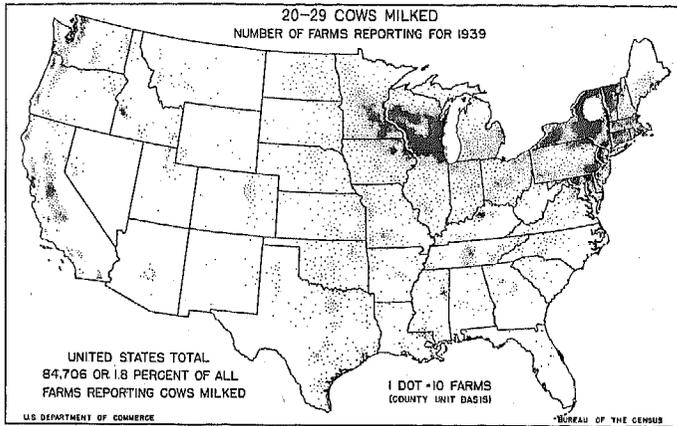




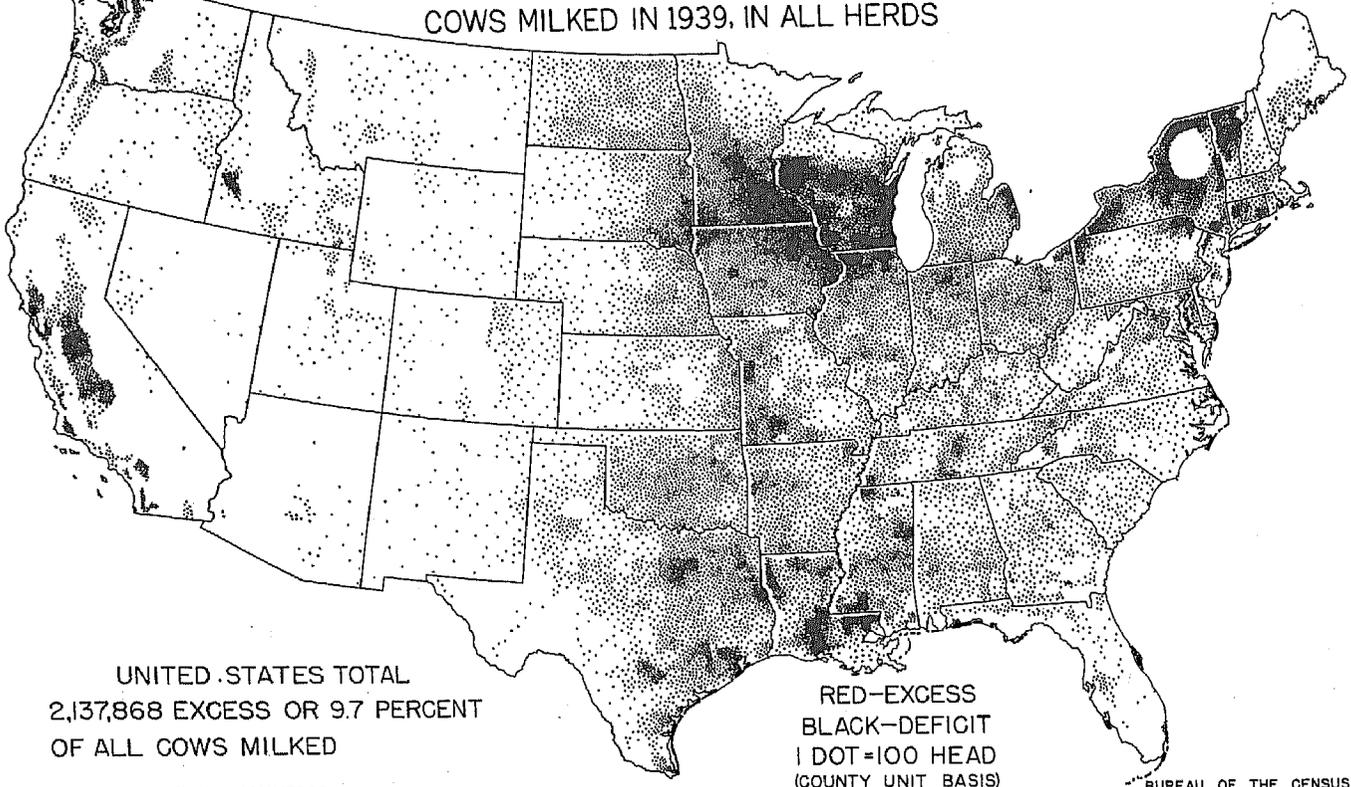








COWS KEPT MAINLY FOR MILK PRODUCTION, APRIL 1, 1940, IN RELATION TO COWS MILKED IN 1939, IN ALL HERDS

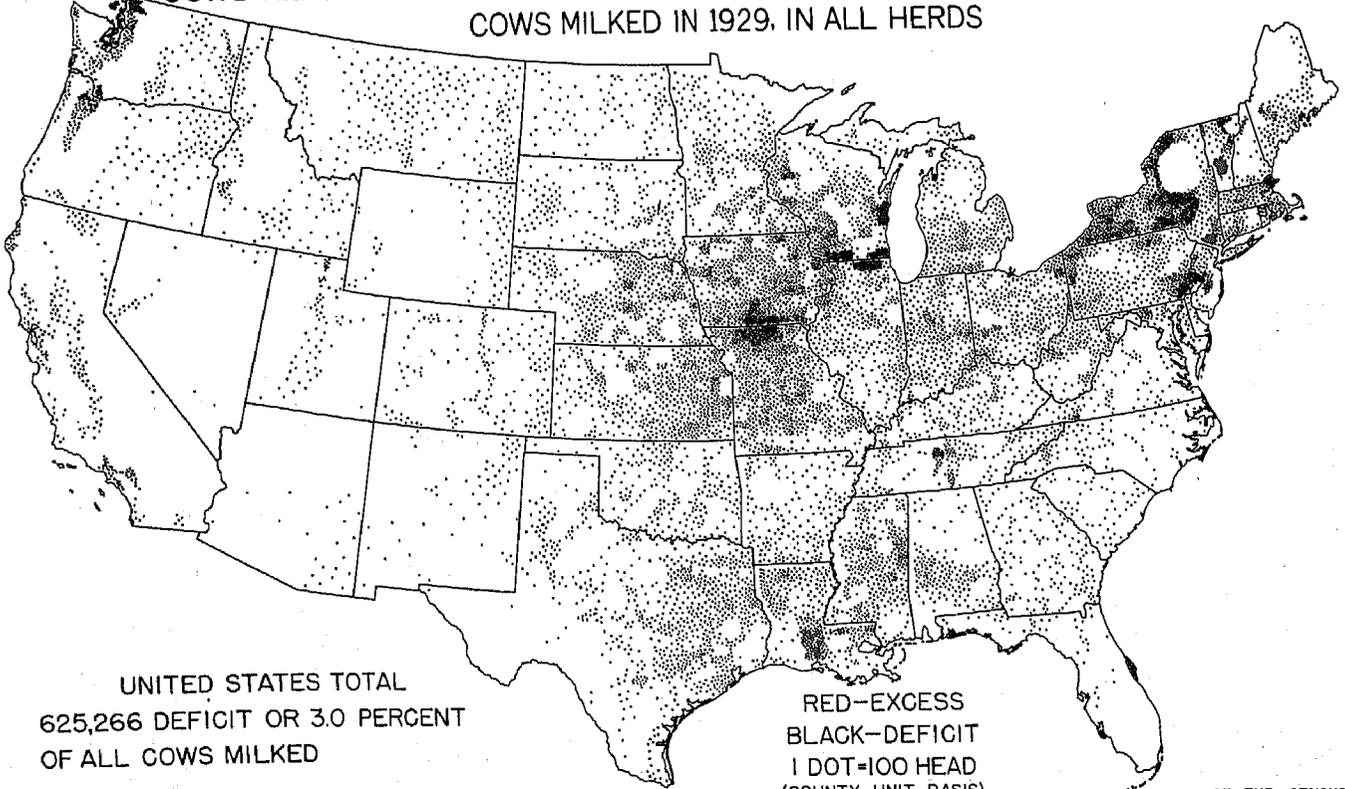


UNITED STATES TOTAL
2,137,868 EXCESS OR 9.7 PERCENT
OF ALL COWS MILKED

U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

COWS KEPT MAINLY FOR MILK PRODUCTION, APRIL 1, 1930, IN RELATION TO COWS MILKED IN 1929, IN ALL HERDS



UNITED STATES TOTAL
625,266 DEFICIT OR 3.0 PERCENT
OF ALL COWS MILKED

U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

