



Milk Production

ISSN: 1949-1557

Released February 23, 2022, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

January Milk Production down 1.4 Percent

Milk production in the 24 major States during January totaled 18.2 billion pounds, down 1.4 percent from January 2021. December revised production, at 18.0 billion pounds, was down 0.8 percent from December 2020. The December revision represented a decrease of 35 million pounds or 0.2 percent from last month's preliminary production estimate.

Production per cow in the 24 major States averaged 2,053 pounds for January, 14 pounds below January 2021.

The number of milk cows on farms in the 24 major States was 8.88 million head, 63,000 head less than January 2021, and 5,000 head less than December 2021.

2021 Annual Milk Production up 1.3 percent from 2020

The annual production of milk for the United States during 2021 was 226 billion pounds, 1.3 percent above 2020. Revisions to 2020 production increased the annual total 89 million pounds. Revised 2021 production was down 18 million pounds from last month's publication. Annual total milk production has increased 12.8 percent from 2012.

Production per cow in the United States averaged 23,948 pounds for 2021, 171 pounds above 2020. The average annual rate of milk production per cow has increased 10.2 percent from 2012.

The average number of milk cows on farms in the United States during 2021 was 9.45 million head, up 0.6 percent from 2020. The average number of milk cows was unrevised for 2021. The average annual number of milk cows has increased 2.3 percent from 2012.

This page intentionally left blank

Contents

Milk Cows and Production by Quarter – United States: 2021-2022.....	4
Milk Cows and Production by Month – 24 Selected States: 2021-2022.....	4
Estimated Milk Cows and Production by Month – United States: 2021-2022.....	4
Milk Cows and Production – 24 Selected States: January 2021 and 2022.....	5
Monthly Milk Production – 24 Selected States.....	5
Milk Cows and Production – 24 Selected States: December 2020 and 2021.....	6
Monthly Milk Cows – 24 Selected States.....	6
Milk Cows and Production – United States: 2012-2021	7
Milk Production – United States: 2012-2021.....	7
Milk Cows and Production – States and United States: 2020 and 2021	8
Milk Cows – United States: 2012-2021.....	9
Production per Cow – United States: 2012-2021	9
Milk Cows by Month – 24 Selected States, 24 State Total, and United States: 2020	10
Milk Cows by Month – 24 Selected States, 24 State Total, and United States: 2021	11
Milk Produced per Cow by Month – 24 Selected States, 24 State Total, and United States: 2020	12
Milk Produced per Cow by Month – 24 Selected States, 24 State Total, and United States: 2021	13
Milk Production by Month – 24 Selected States, 24 State Total, and United States: 2020	14
Milk Production by Month – 24 Selected States, 24 State Total, and United States: 2021	15
Milk Cows and Production by Quarter – States and United States: 2020.....	16
Milk Cows and Production by Quarter – States and United States: 2021.....	17
Licensed Dairy Herds – States and United States: 2020 and 2021	18
Statistical Methodology.....	19
Reliability of Monthly Milk Production Estimates	19
Information Contacts.....	20

Milk Cows and Production by Quarter – United States: 2021-2022

[May not add due to rounding. Blank data cells indicate estimation period has not yet begun]

Quarter	Milk cows ¹		Milk per cow ²		Milk production ²		
	2021	2022	2021	2022	2021	2022	Change from 2021
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January-March	9,466		6,005		56,847		
April-June	9,503		6,119		58,147		
July-September	9,442		5,914		55,836		
October-December	9,381		5,909		55,428		
Annual	9,448		23,948		226,258		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Cows and Production by Month – 24 Selected States: 2021-2022

[May not add due to rounding. Blank data cells indicate estimation period has not yet begun]

Month	Milk cows ¹		Milk per cow ²		Milk production ²		
	2021	2022	2021	2022	2021	2022	Change from 2021
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January	8,938	8,875	2,067	2,053	18,477	18,217	-1.4
February	8,954		1,884		16,871		
March	8,970		2,106		18,888		
April	8,987		2,055		18,467		
May	8,996		2,106		18,949		
June	8,991		2,011		18,078		
July	8,983		2,034		18,272		
August	8,939		2,004		17,910		
September	8,909		1,935		17,239		
October	8,892		2,003		17,812		
November	8,888		1,939		17,232		
December	8,880		2,024		17,971		
Annual	8,944		24,169		216,166		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Estimated Milk Cows and Production by Month – United States: 2021-2022

[May not add due to rounding. Blank data cells indicate estimation period has not yet begun]

Month	Milk cows ¹		Milk per cow ²		Milk production ²		
	2021	2022	2021	2022	2021	2022	Change from 2021
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January	9,450	9,368	2,049	2,034	19,365	19,050	-1.6
February	9,466		1,868		17,685		
March	9,482		2,088		19,797		
April	9,500		2,037		19,350		
May	9,507		2,088		19,855		
June	9,501		1,994		18,942		
July	9,483		2,014		19,097		
August	9,438		1,984		18,721		
September	9,405		1,916		18,018		
October	9,387		1,984		18,623		
November	9,382		1,920		18,015		
December	9,373		2,005		18,790		
Annual	9,448		23,948		226,258		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Cows and Production – 24 Selected States: January 2021 and 2022

[May not add due to rounding]

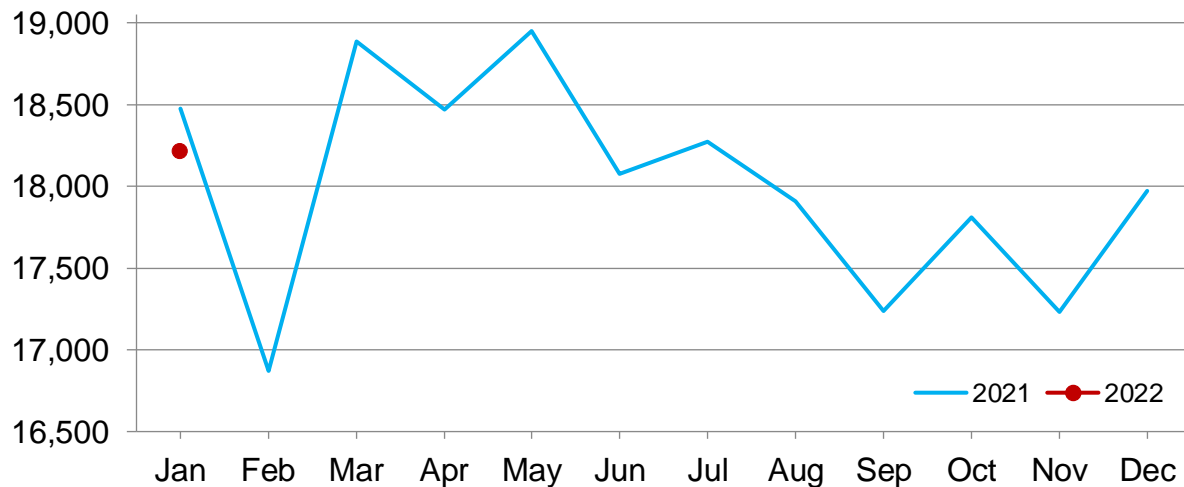
State	Milk cows ¹		Milk per cow ²		Milk production ²		Change from 2021
	2021	2022	2021	2022	2021	2022	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	200	194	2,160	2,150	432	417	-3.5
California	1,720	1,720	2,095	2,055	3,603	3,535	-1.9
Colorado	203	201	2,215	2,205	450	443	-1.6
Florida	109	105	1,825	1,830	199	192	-3.5
Georgia	80	83	1,950	1,975	156	164	5.1
Idaho	648	652	2,095	2,095	1,358	1,366	0.6
Illinois	84	80	1,870	1,845	157	148	-5.7
Indiana	193	186	2,000	2,015	386	375	-2.8
Iowa	222	225	2,105	2,110	467	475	1.7
Kansas	174	169	2,065	2,055	359	347	-3.3
Michigan	440	430	2,310	2,280	1,016	980	-3.5
Minnesota	457	458	1,955	1,930	893	884	-1.0
New Mexico	337	295	2,140	2,150	721	634	-12.1
New York	625	620	2,100	2,105	1,313	1,305	-0.6
Ohio	259	248	1,875	1,865	486	463	-4.7
Oregon	125	124	1,760	1,750	220	217	-1.4
Pennsylvania	475	469	1,840	1,810	874	849	-2.9
South Dakota	142	170	1,955	1,935	278	329	18.3
Texas	616	628	2,160	2,195	1,331	1,378	3.5
Utah	95	94	1,970	1,935	187	182	-2.7
Vermont	120	119	1,835	1,815	220	216	-1.8
Virginia	74	71	1,760	1,760	130	125	-3.8
Washington	278	261	2,035	2,015	566	526	-7.1
Wisconsin	1,262	1,273	2,120	2,095	2,675	2,667	-0.3
24-State Total	8,938	8,875	2,067	2,053	18,477	18,217	-1.4

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Monthly Milk Production – 24 Selected States

Million pounds



Milk Cows and Production – 24 Selected States: December 2020 and 2021

[May not add due to rounding]

	Milk cows ¹		Milk per cow ²		Milk production ²		Change from 2020
	2020	2021	2020	2021	2020	2021	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	198	194	2,105	2,090	417	405	-2.9
California	1,720	1,719	2,035	2,030	3,500	3,490	-0.3
Colorado	201	202	2,205	2,195	443	443	-
Florida	111	105	1,715	1,725	190	181	-4.7
Georgia	81	83	1,900	1,900	154	158	2.6
Idaho	646	652	2,055	2,065	1,328	1,346	1.4
Illinois	84	81	1,845	1,820	155	147	-5.2
Indiana	191	186	2,010	1,980	384	368	-4.2
Iowa	220	225	2,095	2,080	461	468	1.5
Kansas	173	168	1,995	2,030	345	341	-1.2
Michigan	439	434	2,270	2,270	997	985	-1.2
Minnesota	455	460	1,945	1,925	885	886	0.1
New Mexico	337	292	2,100	2,060	708	602	-15.0
New York	626	620	2,065	2,075	1,293	1,287	-0.5
Ohio	258	248	1,860	1,860	480	461	-4.0
Oregon	125	125	1,735	1,715	217	214	-1.4
Pennsylvania	478	470	1,790	1,775	856	834	-2.6
South Dakota	141	170	1,950	1,925	275	327	18.9
Texas	615	625	2,125	2,150	1,307	1,344	2.8
Utah	96	94	1,945	1,935	187	182	-2.7
Vermont	120	120	1,810	1,785	217	214	-1.4
Virginia	74	71	1,725	1,735	128	123	-3.9
Washington	279	261	2,005	1,990	559	519	-7.2
Wisconsin	1,260	1,275	2,080	2,075	2,621	2,646	1.0
24-State Total	8,928	8,880	2,028	2,024	18,107	17,971	-0.8

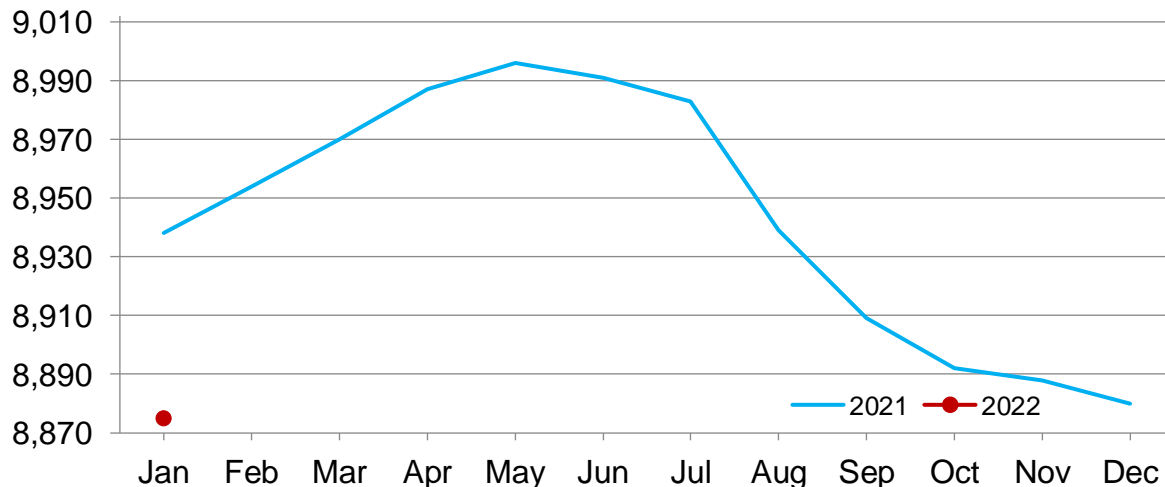
- Represents zero.

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Monthly Milk Cows – 24 Selected States

Thousand head



Milk Cows and Production – United States: 2012-2021

[May not add due to rounding]

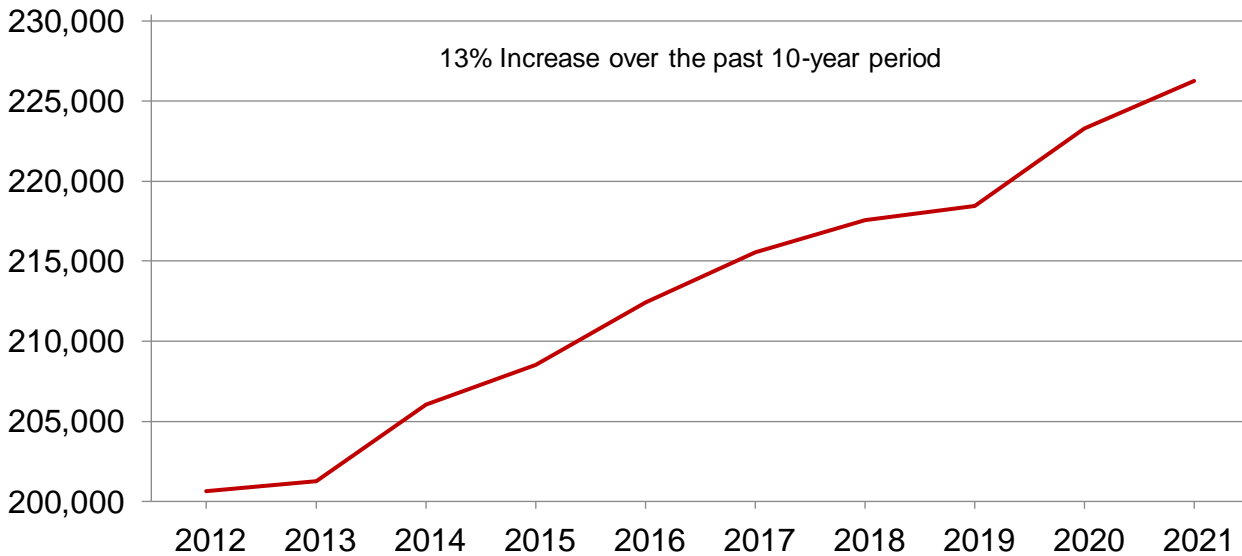
Year	Milk cows ¹ (1,000 head)	Production per cow ²		Milk production ²
		Milk (pounds)	Total (million pounds)	
2012	9,237	21,722	200,642	
2013	9,224	21,819	201,260	
2014	9,261	22,249	206,048	
2015	9,320	22,372	208,508	
2016	9,334	22,761	212,451	
2017	9,406	22,914	215,527	
2018	9,398	23,150	217,568	
2019	9,337	23,395	218,441	
2020	9,392	23,777	223,309	
2021	9,448	23,948	226,258	

¹ Average number during year, excluding heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Production – United States: 2012-2021

Million pounds



Milk Cows and Production – States and United States: 2020 and 2021

[May not add due to rounding]

State	Milk cows ¹		Milk per cow ²		Milk production ²		Change from 2020
	2020	2021	2020	2021	2020	2021	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Alabama	3.0	3.0	14,667	13,000	44.0	39.0	-11.4
Alaska	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
Arizona	200.0	198.0	24,445	24,333	4,889.0	4,818.0	-1.5
Arkansas	5.0	5.0	12,800	12,000	64.0	60.0	-6.3
California	1,722.0	1,719.0	23,990	24,354	41,311.0	41,864.0	1.3
Colorado	197.0	203.0	26,142	25,966	5,150.0	5,271.0	2.3
Connecticut	19.0	19.0	23,053	22,842	438.0	434.0	-0.9
Delaware	3.8	3.0	18,553	17,333	70.5	52.0	-26.2
Florida	113.0	108.0	20,230	20,093	2,286.0	2,170.0	-5.1
Georgia	81.0	82.0	21,877	21,927	1,772.0	1,798.0	1.5
Hawaii	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
Idaho	645.0	652.0	25,174	25,172	16,237.0	16,412.0	1.1
Illinois	83.0	82.0	21,530	21,634	1,787.0	1,774.0	-0.7
Indiana	183.0	192.0	23,683	23,604	4,334.0	4,532.0	4.6
Iowa	218.0	226.0	24,651	24,504	5,374.0	5,538.0	3.1
Kansas	170.0	172.0	23,682	23,826	4,026.0	4,098.0	1.8
Kentucky	48.0	46.0	19,563	19,717	939.0	907.0	-3.4
Louisiana	10.0	9.0	13,400	14,000	134.0	126.0	-6.0
Maine	27.0	27.0	21,963	21,185	593.0	572.0	-3.5
Maryland	42.0	42.0	20,976	20,833	881.0	875.0	-0.7
Massachusetts	10.0	10.0	20,000	19,700	200.0	197.0	-1.5
Michigan	430.0	441.0	27,174	27,102	11,685.0	11,952.0	2.3
Minnesota	448.0	461.0	22,694	22,881	10,167.0	10,548.0	3.7
Mississippi	8.0	7.0	16,375	15,143	131.0	106.0	-19.1
Missouri	76.0	71.0	14,276	14,225	1,085.0	1,010.0	-6.9
Montana	12.0	11.0	21,167	22,091	254.0	243.0	-4.3
Nebraska	59.0	58.0	24,746	24,534	1,460.0	1,423.0	-2.5
Nevada	33.0	33.0	23,879	24,545	788.0	810.0	2.8
New Hampshire	11.0	11.0	21,455	20,545	236.0	226.0	-4.2
New Jersey	5.0	4.0	20,200	22,500	101.0	90.0	-10.9
New Mexico	330.0	318.0	24,755	24,541	8,169.0	7,804.0	-4.5
New York	626.0	627.0	24,435	24,785	15,296.0	15,540.0	1.6
North Carolina	41.0	40.0	21,829	22,925	895.0	917.0	2.5
North Dakota	15.0	15.0	21,867	22,333	328.0	335.0	2.1
Ohio	254.0	257.0	22,118	21,957	5,618.0	5,643.0	0.4
Oklahoma	42.0	39.0	17,452	17,744	733.0	692.0	-5.6
Oregon	126.0	125.0	20,929	20,976	2,637.0	2,622.0	-0.6
Pennsylvania	482.0	474.0	21,326	21,338	10,279.0	10,114.0	-1.6
Rhode Island	0.5	0.5	21,800	20,200	10.9	10.1	-7.3
South Carolina	10.0	9.0	18,600	17,667	186.0	159.0	-14.5
South Dakota	135.0	156.0	23,111	23,096	3,120.0	3,603.0	15.5
Tennessee	30.0	28.0	18,067	18,143	542.0	508.0	-6.3
Texas	595.0	622.0	24,966	25,079	14,855.0	15,599.0	5.0
Utah	96.0	96.0	23,229	23,156	2,230.0	2,223.0	-0.3
Vermont	122.0	120.0	21,336	21,383	2,603.0	2,566.0	-1.4
Virginia	75.0	73.0	20,293	20,151	1,522.0	1,471.0	-3.4
Washington	280.0	271.0	24,346	24,000	6,817.0	6,504.0	-4.6
West Virginia	6.0	5.0	14,833	15,000	89.0	75.0	-15.7
Wisconsin	1,259.0	1,274.0	24,423	24,884	30,749.0	31,702.0	3.1
Wyoming	7.5	8.5	25,173	25,918	188.8	220.3	16.7
Other States ³	0.9	0.9	5,333	6,111	4.8	5.5	14.6
United States	9,392.0	9,448.0	23,777	23,948	223,309.0	226,258.0	1.3

(D) Withheld to avoid disclosing data for individual operations.

(NA) Not available.

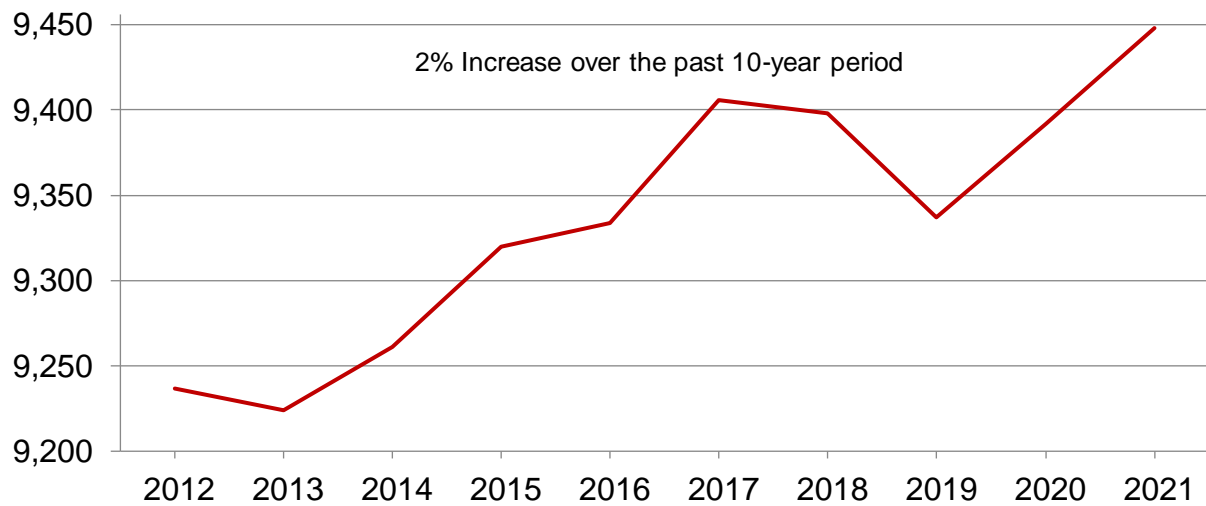
¹ Average number during year, excluding heifers not yet fresh.

² Excludes milk sucked by calves.

³ Other States includes Alaska and Hawaii.

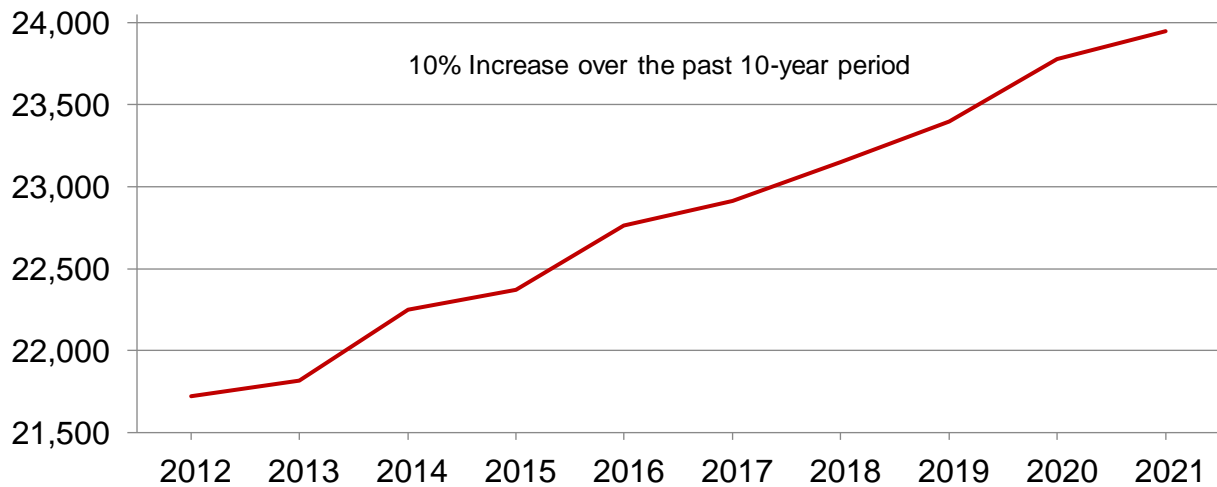
Milk Cows – United States: 2012-2021

Thousand head



Production per Cow – United States: 2012-2021

Pounds



Milk Cows by Month – 24 Selected States, 24 State Total, and United States: 2020

[Includes dry cows, excludes heifers not yet fresh]

State	January (1,000 head)	February (1,000 head)	March (1,000 head)	April (1,000 head)	May (1,000 head)	June (1,000 head)
Arizona	196	198	200	200	200	200
California	1,725	1,725	1,725	1,723	1,722	1,721
Colorado	191	193	194	194	196	197
Florida	116	116	116	115	113	111
Georgia	82	82	82	82	82	81
Idaho	645	645	647	645	643	640
Illinois	82	82	82	82	82	83
Indiana	176	176	176	176	176	180
Iowa	215	217	219	219	217	217
Kansas	169	169	171	169	168	168
Michigan	427	427	428	428	428	428
Minnesota	445	445	445	445	443	442
New Mexico	333	333	332	330	328	327
New York	625	626	626	626	626	626
Ohio	253	253	253	253	253	253
Oregon	127	127	127	126	125	125
Pennsylvania	480	483	485	485	483	482
South Dakota	128	129	129	132	134	136
Texas	585	585	590	590	590	590
Utah	96	97	98	97	96	96
Vermont	124	124	124	124	122	122
Virginia	76	76	75	75	75	74
Washington	282	282	280	280	279	278
Wisconsin	1,260	1,260	1,260	1,260	1,257	1,257
24-State total	8,838	8,850	8,864	8,856	8,838	8,834
United States ¹	9,367	9,382	9,396	9,380	9,362	9,358

State	July (1,000 head)	August (1,000 head)	September (1,000 head)	October (1,000 head)	November (1,000 head)	December (1,000 head)	Annual average ² (1,000 head)
Arizona	201	201	201	201	199	198	200
California	1,721	1,721	1,720	1,720	1,720	1,720	1,722
Colorado	198	198	200	201	201	201	197
Florida	111	111	112	112	111	111	113
Georgia	81	80	80	81	81	81	81
Idaho	645	645	645	645	646	646	645
Illinois	83	83	84	84	84	84	83
Indiana	188	189	191	191	191	191	183
Iowa	218	218	219	219	219	220	218
Kansas	169	170	171	172	172	173	170
Michigan	428	429	430	431	436	439	430
Minnesota	445	448	450	452	455	455	448
New Mexico	326	326	327	332	334	337	330
New York	626	626	626	626	626	626	626
Ohio	254	254	254	256	257	258	254
Oregon	125	125	125	125	125	125	126
Pennsylvania	482	482	482	482	482	478	482
South Dakota	137	138	140	140	140	141	135
Texas	590	593	598	605	611	615	595
Utah	95	95	94	95	95	96	96
Vermont	121	121	120	120	120	120	122
Virginia	74	74	74	74	74	74	75
Washington	280	279	279	279	279	279	280
Wisconsin	1,257	1,257	1,256	1,257	1,260	1,260	1,259
24-State Total	8,855	8,863	8,878	8,900	8,918	8,928	8,869
United States ¹	9,373	9,383	9,398	9,419	9,437	9,447	9,392

¹ United States monthly estimates are derived by proportionally allocating the quarterly estimates using the 24-state monthly totals.

² Average based on monthly totals.

Milk Cows by Month – 24 Selected States, 24 State Total, and United States: 2021

[Includes dry cows, excludes heifers not yet fresh]

State	January	February	March	April	May	June
	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)
Arizona	200	200	200	201	201	200
California	1,720	1,720	1,720	1,719	1,719	1,719
Colorado	203	203	204	205	206	203
Florida	109	108	109	110	110	110
Georgia	80	80	81	82	82	82
Idaho	648	652	652	653	654	654
Illinois	84	83	83	83	83	83
Indiana	193	193	194	195	196	197
Iowa	222	224	227	228	228	228
Kansas	174	174	175	175	175	173
Michigan	440	441	442	444	445	445
Minnesota	457	461	462	462	462	462
New Mexico	337	336	333	333	330	326
New York	625	626	626	626	630	630
Ohio	259	260	260	260	260	260
Oregon	125	125	126	126	126	126
Pennsylvania	475	475	475	475	475	475
South Dakota	142	143	147	152	154	157
Texas	616	618	618	620	622	624
Utah	95	96	96	96	97	97
Vermont	120	120	119	119	119	119
Virginia	74	74	73	73	73	73
Washington	278	278	278	276	275	273
Wisconsin	1,262	1,264	1,270	1,274	1,274	1,275
24-State total	8,938	8,954	8,970	8,987	8,996	8,991
United States ¹	9,450	9,466	9,482	9,500	9,507	9,501

State	July	August	September	October	November	December	Annual average ²
	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)
Arizona	198	196	194	194	194	194	198
California	1,719	1,719	1,719	1,719	1,719	1,719	1,719
Colorado	203	200	199	200	201	202	203
Florida	108	106	105	105	105	105	108
Georgia	82	82	82	82	82	83	82
Idaho	654	651	651	650	651	652	652
Illinois	83	82	82	81	81	81	82
Indiana	197	192	189	186	186	186	192
Iowa	228	225	225	225	225	225	226
Kansas	172	170	170	169	168	168	172
Michigan	445	442	438	435	434	434	441
Minnesota	462	461	461	461	461	460	461
New Mexico	321	311	300	298	295	292	318
New York	630	628	628	628	625	620	627
Ohio	260	258	254	251	250	248	257
Oregon	125	124	125	125	125	125	125
Pennsylvania	475	475	473	470	470	470	474
South Dakota	159	160	161	162	167	170	156
Texas	625	625	625	625	625	625	622
Utah	97	95	94	94	94	94	96
Vermont	120	120	120	120	120	120	120
Virginia	73	72	72	71	71	71	73
Washington	269	267	264	263	262	261	271
Wisconsin	1,278	1,278	1,278	1,278	1,277	1,275	1,274
24-State total	8,983	8,939	8,909	8,892	8,888	8,880	8,944
United States ¹	9,483	9,438	9,405	9,387	9,382	9,373	9,448

¹ United States monthly estimates are derived by proportionally allocating the quarterly estimates using the 24-state monthly totals.

² Average based on monthly totals.

Milk Produced per Cow by Month – 24 Selected States, 24 State Total, and United States: 2020

[Excludes milk sucked by calves]

State	January (pounds)	February (pounds)	March (pounds)	April (pounds)	May (pounds)	June (pounds)
Arizona	2,140	2,100	2,285	2,155	2,145	2,015
California	2,045	1,960	2,130	2,030	2,070	1,945
Colorado	2,210	2,065	2,225	2,160	2,220	2,150
Florida	1,850	1,770	1,885	1,805	1,765	1,675
Georgia	1,965	1,855	1,990	1,880	1,855	1,765
Idaho	2,090	1,965	2,135	2,090	2,165	2,105
Illinois	1,870	1,790	1,940	1,870	1,875	1,795
Indiana	1,970	1,870	2,045	1,990	2,030	2,000
Iowa	2,110	1,975	2,115	2,030	2,095	2,030
Kansas	2,035	1,905	2,050	1,960	1,970	1,915
Michigan	2,280	2,150	2,335	2,255	2,310	2,280
Minnesota	1,885	1,780	1,910	1,850	1,930	1,915
New Mexico	2,135	2,025	2,195	2,100	2,030	1,980
New York	2,060	1,945	2,110	2,030	2,075	2,030
Ohio	1,855	1,760	1,900	1,840	1,880	1,840
Oregon	1,755	1,660	1,785	1,755	1,825	1,760
Pennsylvania	1,810	1,725	1,855	1,820	1,830	1,775
South Dakota	1,950	1,835	1,960	1,870	1,940	1,895
Texas	2,145	2,005	2,180	2,090	2,075	2,030
Utah	1,935	1,820	1,960	1,930	2,000	1,955
Vermont	1,825	1,725	1,870	1,800	1,795	1,760
Virginia	1,765	1,670	1,830	1,765	1,770	1,700
Washington	2,045	1,930	2,070	2,030	2,105	2,030
Wisconsin	2,045	1,930	2,080	2,000	2,060	2,040
24-State total	2,033	1,926	2,083	2,006	2,045	1,983
United States ¹	2,015	1,908	2,064	1,990	2,027	1,966

State	July (pounds)	August (pounds)	September (pounds)	October (pounds)	November (pounds)	December (pounds)	Annual average ² (pounds)
Arizona	1,925	1,840	1,835	1,990	1,965	2,105	24,445
California	2,005	1,955	1,905	1,965	1,945	2,035	23,990
Colorado	2,235	2,225	2,145	2,185	2,110	2,205	26,142
Florida	1,650	1,570	1,445	1,525	1,570	1,715	20,230
Georgia	1,755	1,700	1,650	1,740	1,755	1,900	21,877
Idaho	2,210	2,190	2,075	2,100	2,005	2,055	25,174
Illinois	1,745	1,720	1,645	1,740	1,730	1,845	21,530
Indiana	1,950	1,970	1,935	1,990	1,875	2,010	23,683
Iowa	2,040	2,070	2,005	2,065	2,005	2,095	24,651
Kansas	1,980	1,995	1,920	1,985	1,960	1,995	23,682
Michigan	2,310	2,320	2,220	2,270	2,180	2,270	27,174
Minnesota	1,940	1,950	1,870	1,910	1,835	1,945	22,694
New Mexico	2,015	2,055	2,025	2,065	1,995	2,100	24,755
New York	2,065	2,065	1,980	2,030	1,980	2,065	24,435
Ohio	1,870	1,865	1,790	1,850	1,780	1,860	22,118
Oregon	1,810	1,775	1,710	1,750	1,670	1,735	20,929
Pennsylvania	1,795	1,745	1,690	1,760	1,720	1,790	21,326
South Dakota	1,930	1,970	1,905	1,955	1,880	1,950	23,111
Texas	2,065	2,080	2,025	2,105	2,035	2,125	24,966
Utah	1,985	1,975	1,910	1,950	1,880	1,945	23,229
Vermont	1,785	1,775	1,725	1,765	1,725	1,810	21,336
Virginia	1,660	1,640	1,575	1,660	1,630	1,725	20,293
Washington	2,120	2,075	2,005	2,035	1,930	2,005	24,346
Wisconsin	2,070	2,080	2,005	2,055	1,990	2,080	24,423
24-State total	2,021	2,008	1,940	1,996	1,939	2,028	24,006
United States ¹	1,999	1,986	1,918	1,976	1,920	2,008	23,777

¹ United States monthly estimates are derived by proportionally allocating the quarterly estimates using the 24-state monthly totals.

² Average per cow for the year.

Milk Produced per Cow by Month – 24 Selected States, 24 State Total, and United States: 2021

[Excludes milk sucked by calves]

State	January (pounds)	February (pounds)	March (pounds)	April (pounds)	May (pounds)	June (pounds)
Arizona	2,160	2,000	2,260	2,185	2,205	2,025
California	2,095	1,935	2,165	2,120	2,165	2,010
Colorado	2,215	1,995	2,230	2,165	2,225	2,145
Florida	1,825	1,695	1,880	1,805	1,765	1,690
Georgia	1,950	1,790	2,010	1,915	1,890	1,830
Idaho	2,095	1,910	2,135	2,105	2,205	2,130
Illinois	1,870	1,725	1,940	1,880	1,890	1,800
Indiana	2,000	1,820	2,065	2,000	2,050	2,000
Iowa	2,105	1,905	2,115	2,040	2,095	2,025
Kansas	2,065	1,860	2,080	2,005	2,040	1,920
Michigan	2,310	2,100	2,345	2,280	2,335	2,270
Minnesota	1,955	1,780	1,970	1,895	1,960	1,895
New Mexico	2,140	1,955	2,165	2,140	2,140	2,070
New York	2,100	1,905	2,140	2,100	2,155	2,085
Ohio	1,875	1,700	1,910	1,840	1,890	1,840
Oregon	1,760	1,605	1,795	1,755	1,830	1,755
Pennsylvania	1,840	1,680	1,880	1,840	1,880	1,780
South Dakota	1,955	1,755	1,940	1,885	1,960	1,910
Texas	2,160	1,950	2,180	2,155	2,175	2,055
Utah	1,970	1,770	1,970	1,945	2,030	1,975
Vermont	1,835	1,660	1,870	1,825	1,870	1,805
Virginia	1,760	1,600	1,820	1,770	1,785	1,655
Washington	2,035	1,850	2,060	2,025	2,105	2,010
Wisconsin	2,120	1,920	2,140	2,075	2,145	2,070
24-State total	2,067	1,884	2,106	2,055	2,106	2,011
United States ¹	2,049	1,868	2,088	2,037	2,088	1,994

State	July (pounds)	August (pounds)	September (pounds)	October (pounds)	November (pounds)	December (pounds)	Annual average ² (pounds)
Arizona	1,905	1,825	1,790	1,960	1,960	2,090	24,333
California	2,000	1,970	1,905	2,005	1,950	2,030	24,354
Colorado	2,225	2,220	2,135	2,180	2,110	2,195	25,966
Florida	1,620	1,540	1,475	1,550	1,590	1,725	20,093
Georgia	1,780	1,730	1,670	1,780	1,770	1,900	21,927
Idaho	2,190	2,170	2,070	2,090	2,010	2,065	25,172
Illinois	1,770	1,720	1,650	1,735	1,730	1,820	21,634
Indiana	1,970	1,940	1,900	1,985	1,890	1,980	23,604
Iowa	2,065	2,055	1,995	2,050	1,990	2,080	24,504
Kansas	2,005	1,985	1,915	1,990	1,940	2,030	23,826
Michigan	2,320	2,290	2,195	2,255	2,170	2,270	27,102
Minnesota	1,945	1,940	1,870	1,910	1,835	1,925	22,881
New Mexico	2,000	1,955	1,930	2,020	1,960	2,060	24,541
New York	2,120	2,075	2,000	2,050	1,980	2,075	24,785
Ohio	1,870	1,850	1,760	1,820	1,770	1,860	21,957
Oregon	1,800	1,770	1,710	1,760	1,680	1,715	20,976
Pennsylvania	1,795	1,750	1,690	1,740	1,705	1,775	21,338
South Dakota	1,970	1,980	1,920	1,975	1,880	1,925	23,096
Texas	2,085	2,035	1,985	2,105	2,030	2,150	25,079
Utah	2,000	1,990	1,905	1,930	1,875	1,935	23,156
Vermont	1,825	1,780	1,725	1,760	1,700	1,785	21,383
Virginia	1,650	1,625	1,590	1,670	1,645	1,735	20,151
Washington	2,045	2,030	1,975	2,010	1,920	1,990	24,000
Wisconsin	2,135	2,110	2,030	2,075	1,995	2,075	24,884
24-State total	2,034	2,004	1,935	2,003	1,939	2,024	24,169
United States ¹	2,014	1,984	1,916	1,984	1,920	2,005	23,948

¹ United States monthly estimates are derived by proportionally allocating the quarterly estimates using the 24-state monthly totals.

² Average per cow for the year.

Milk Production by Month – 24 Selected States, 24 State Total, and United States: 2020

[Excludes milk sucked by calves]

State	January (million pounds)	February (million pounds)	March (million pounds)	April (million pounds)	May (million pounds)	June (million pounds)
Arizona	419	416	457	431	429	403
California	3,528	3,381	3,674	3,498	3,565	3,347
Colorado	422	399	432	419	435	424
Florida	215	205	219	208	199	186
Georgia	161	152	163	154	152	143
Idaho	1,348	1,267	1,381	1,348	1,392	1,347
Illinois	153	147	159	153	154	149
Indiana	347	329	360	350	357	360
Iowa	454	429	463	445	455	441
Kansas	344	322	351	331	331	322
Michigan	974	918	999	965	989	976
Minnesota	839	792	850	823	855	846
New Mexico	711	674	729	693	666	647
New York	1,288	1,218	1,321	1,271	1,299	1,271
Ohio	469	445	481	466	476	466
Oregon	223	211	227	221	228	220
Pennsylvania	869	833	900	883	884	856
South Dakota	250	237	253	247	260	258
Texas	1,255	1,173	1,286	1,233	1,224	1,198
Utah	186	177	192	187	192	188
Vermont	226	214	232	223	219	215
Virginia	134	127	137	132	133	126
Washington	577	544	580	568	587	564
Wisconsin	2,577	2,432	2,621	2,520	2,589	2,564
24-State total	17,969	17,042	18,467	17,769	18,070	17,517
United States ¹	18,875	17,900	19,395	18,665	18,980	18,400

State	July (million pounds)	August (million pounds)	September (million pounds)	October (million pounds)	November (million pounds)	December (million pounds)	Annual total ² (million pounds)
Arizona	387	370	369	400	391	417	4,889
California	3,451	3,365	3,277	3,380	3,345	3,500	41,311
Colorado	443	441	429	439	424	443	5,150
Florida	183	174	162	171	174	190	2,286
Georgia	142	136	132	141	142	154	1,772
Idaho	1,425	1,413	1,338	1,355	1,295	1,328	16,237
Illinois	145	143	138	146	145	155	1,787
Indiana	367	372	370	380	358	384	4,334
Iowa	445	451	439	452	439	461	5,374
Kansas	335	339	328	341	337	345	4,026
Michigan	989	995	955	978	950	997	11,685
Minnesota	863	874	842	863	835	885	10,167
New Mexico	657	670	662	686	666	708	8,169
New York	1,293	1,293	1,239	1,271	1,239	1,293	15,296
Ohio	475	474	455	474	457	480	5,618
Oregon	226	222	214	219	209	217	2,637
Pennsylvania	865	841	815	848	829	856	10,279
South Dakota	264	272	267	274	263	275	3,120
Texas	1,218	1,233	1,211	1,274	1,243	1,307	14,855
Utah	189	188	180	185	179	187	2,230
Vermont	216	215	207	212	207	217	2,603
Virginia	123	121	117	123	121	128	1,522
Washington	594	579	559	568	538	559	6,817
Wisconsin	2,602	2,615	2,518	2,583	2,507	2,621	30,749
24-State total	17,897	17,796	17,223	17,763	17,293	18,107	212,913
United States ¹	18,740	18,630	18,030	18,609	18,115	18,970	223,309

¹ United States monthly estimates are derived by proportionally allocating the quarterly estimates using the 24-state monthly totals.

² Total milk production for the year.

Milk Production by Month – 24 Selected States, 24 State Total, and United States: 2021

[Excludes milk sucked by calves]

State	January (million pounds)	February (million pounds)	March (million pounds)	April (million pounds)	May (million pounds)	June (million pounds)
Arizona	432	400	452	439	443	405
California	3,603	3,328	3,724	3,644	3,722	3,455
Colorado	450	405	455	444	458	435
Florida	199	183	205	199	194	186
Georgia	156	143	163	157	155	150
Idaho	1,358	1,245	1,392	1,375	1,442	1,393
Illinois	157	143	161	156	157	149
Indiana	386	351	401	390	402	394
Iowa	467	427	480	465	478	462
Kansas	359	324	364	351	357	332
Michigan	1,016	926	1,036	1,012	1,039	1,010
Minnesota	893	821	910	875	906	875
New Mexico	721	657	721	713	706	675
New York	1,313	1,193	1,340	1,315	1,358	1,314
Ohio	486	442	497	478	491	478
Oregon	220	201	226	221	231	221
Pennsylvania	874	798	893	874	893	846
South Dakota	278	251	285	287	302	300
Texas	1,331	1,205	1,347	1,336	1,353	1,282
Utah	187	170	189	187	197	192
Vermont	220	199	223	217	223	215
Virginia	130	118	133	129	130	121
Washington	566	514	573	559	579	549
Wisconsin	2,675	2,427	2,718	2,644	2,733	2,639
24-State total	18,477	16,871	18,888	18,467	18,949	18,078
United States ¹	19,365	17,685	19,797	19,350	19,855	18,942

State	July (million pounds)	August (million pounds)	September (million pounds)	October (million pounds)	November (million pounds)	December (million pounds)	Annual total ² (million pounds)
Arizona	377	358	347	380	380	405	4,818
California	3,438	3,386	3,275	3,447	3,352	3,490	41,864
Colorado	452	444	425	436	424	443	5,271
Florida	175	163	155	163	167	181	2,170
Georgia	146	142	137	146	145	158	1,798
Idaho	1,432	1,413	1,348	1,359	1,309	1,346	16,412
Illinois	147	141	135	141	140	147	1,774
Indiana	388	372	359	369	352	368	4,532
Iowa	471	462	449	461	448	468	5,538
Kansas	345	337	326	336	326	341	4,098
Michigan	1,032	1,012	961	981	942	985	11,952
Minnesota	899	894	862	881	846	886	10,548
New Mexico	642	608	579	602	578	602	7,804
New York	1,336	1,303	1,256	1,287	1,238	1,287	15,540
Ohio	486	477	447	457	443	461	5,643
Oregon	225	219	214	220	210	214	2,622
Pennsylvania	853	831	799	818	801	834	10,114
South Dakota	313	317	309	320	314	327	3,603
Texas	1,303	1,272	1,241	1,316	1,269	1,344	15,599
Utah	194	189	179	181	176	182	2,223
Vermont	219	214	207	211	204	214	2,566
Virginia	120	117	114	119	117	123	1,471
Washington	550	542	521	529	503	519	6,504
Wisconsin	2,729	2,697	2,594	2,652	2,548	2,646	31,702
24-State total	18,272	17,910	17,239	17,812	17,232	17,971	216,166
United States ¹	19,097	18,721	18,018	18,623	18,015	18,790	226,258

¹ United States monthly estimates are derived by proportionally allocating the quarterly estimates using the 24-state monthly totals.

² Total milk production for the year.

Milk Cows and Production by Quarter – States and United States: 2020

[May not add due to rounding]

State	Milk cows ¹				Milk production ²			
	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)	(million pounds)	(million pounds)	(million pounds)	(million pounds)
Alabama	4.0	3.5	3.2	3.0	13.0	12.0	9.0	10.0
Alaska	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Arizona	198.0	200.0	201.0	199.0	1,292.0	1,263.0	1,126.0	1,208.0
Arkansas	5.0	5.0	5.0	5.0	18.0	18.0	14.0	14.0
California	1,725.0	1,722.0	1,721.0	1,720.0	10,583.0	10,410.0	10,093.0	10,225.0
Colorado	193.0	196.0	199.0	201.0	1,253.0	1,278.0	1,313.0	1,306.0
Connecticut	19.5	19.0	19.0	19.0	115.0	109.0	106.0	108.0
Delaware	3.8	3.8	3.8	3.7	19.0	18.7	16.4	16.4
Florida	116.0	113.0	111.0	111.0	639.0	593.0	519.0	535.0
Georgia	82.0	82.0	80.0	81.0	476.0	449.0	410.0	437.0
Hawaii	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	646.0	643.0	645.0	646.0	3,996.0	4,087.0	4,176.0	3,978.0
Illinois	82.0	82.0	83.0	84.0	459.0	456.0	426.0	446.0
Indiana	176.0	177.0	189.0	191.0	1,036.0	1,067.0	1,109.0	1,122.0
Iowa	217.0	218.0	218.0	219.0	1,346.0	1,341.0	1,335.0	1,352.0
Kansas	170.0	168.0	170.0	172.0	1,017.0	984.0	1,002.0	1,023.0
Kentucky	49.0	48.0	47.0	47.0	251.0	253.0	216.0	219.0
Louisiana	10.0	10.0	9.5	10.0	39.0	37.0	27.0	31.0
Maine	27.0	27.0	27.0	27.0	151.0	152.0	147.0	143.0
Maryland	42.0	42.0	42.0	43.0	226.0	224.0	210.0	221.0
Massachusetts	10.0	10.0	10.0	10.0	52.0	50.0	49.0	49.0
Michigan	427.0	428.0	429.0	435.0	2,891.0	2,930.0	2,939.0	2,925.0
Minnesota	445.0	443.0	448.0	454.0	2,481.0	2,524.0	2,579.0	2,583.0
Mississippi	8.5	8.5	8.5	8.0	37.0	36.0	28.0	30.0
Missouri	77.0	76.0	75.0	75.0	275.0	301.0	253.0	256.0
Montana	12.0	11.5	11.5	11.0	64.0	64.0	64.0	62.0
Nebraska	59.0	59.0	59.0	60.0	367.0	364.0	360.0	369.0
Nevada	33.0	33.0	33.0	33.0	190.0	195.0	202.0	201.0
New Hampshire	11.0	11.0	11.0	11.0	62.0	59.0	58.0	57.0
New Jersey	4.7	4.7	4.7	4.6	27.0	26.0	24.0	24.0
New Mexico	333.0	328.0	326.0	334.0	2,114.0	2,006.0	1,989.0	2,060.0
New York	626.0	626.0	626.0	626.0	3,827.0	3,841.0	3,825.0	3,803.0
North Carolina	41.0	41.0	40.0	40.0	239.0	229.0	210.0	217.0
North Dakota	14.5	14.5	15.0	15.0	80.0	82.0	84.0	82.0
Ohio	253.0	253.0	254.0	257.0	1,395.0	1,408.0	1,404.0	1,411.0
Oklahoma	42.0	42.0	41.0	41.0	200.0	194.0	165.0	174.0
Oregon	127.0	125.0	125.0	125.0	661.0	669.0	662.0	645.0
Pennsylvania	483.0	483.0	482.0	481.0	2,602.0	2,623.0	2,521.0	2,533.0
Rhode Island	0.6	0.5	0.5	0.5	2.7	2.7	2.8	2.7
South Carolina	11.0	10.5	10.0	10.0	55.0	50.0	39.0	42.0
South Dakota	129.0	134.0	138.0	140.0	740.0	765.0	803.0	812.0
Tennessee	31.0	30.0	29.0	29.0	145.0	142.0	126.0	129.0
Texas	587.0	590.0	594.0	610.0	3,714.0	3,655.0	3,662.0	3,824.0
Utah	97.0	96.0	95.0	95.0	555.0	567.0	557.0	551.0
Vermont	124.0	123.0	121.0	120.0	672.0	657.0	638.0	636.0
Virginia	76.0	75.0	74.0	74.0	398.0	391.0	361.0	372.0
Washington	281.0	279.0	279.0	279.0	1,701.0	1,719.0	1,732.0	1,665.0
West Virginia	6.0	6.0	6.0	6.0	23.0	23.0	22.0	21.0
Wisconsin	1,260.0	1,258.0	1,257.0	1,259.0	7,630.0	7,673.0	7,735.0	7,711.0
Wyoming	6.5	7.5	8.0	8.0	40.0	46.5	50.5	51.8
Other States ³	1.0	0.9	0.8	0.8	1.4	1.2	0.9	1.3
United States	9,382.0	9,367.0	9,385.0	9,434.0	56,170.0	56,045.0	55,400.0	55,694.0

(D) Withheld to avoid disclosing data for individual operations.

¹ Quarterly average includes dry cows, excludes heifers not yet fresh.

² Excludes milk sucked by calves.

³ Other States includes Alaska and Hawaii.

Milk Cows and Production by Quarter – States and United States: 2021

[May not add due to rounding]

State	Milk cows ¹				Milk production ²			
	Jan-Mar (1,000 head)	Apr-Jun (1,000 head)	Jul-Sep (1,000 head)	Oct-Dec (1,000 head)	Jan-Mar (million pounds)	Apr-Jun (million pounds)	Jul-Sep (million pounds)	Oct-Dec (million pounds)
Alabama	3.0	3.0	2.5	3.0	12.0	11.0	8.0	8.0
Alaska	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Arizona	200.0	201.0	196.0	194.0	1,284.0	1,287.0	1,082.0	1,165.0
Arkansas	5.0	5.0	4.5	4.5	17.0	17.0	13.0	13.0
California	1,720.0	1,719.0	1,719.0	1,719.0	10,655.0	10,821.0	10,099.0	10,289.0
Colorado	203.0	205.0	201.0	201.0	1,310.0	1,337.0	1,321.0	1,303.0
Connecticut	19.0	19.0	19.0	18.5	112.0	113.0	105.0	104.0
Delaware	3.0	3.0	3.0	2.8	14.5	14.0	12.1	11.4
Florida	109.0	110.0	106.0	105.0	587.0	579.0	493.0	511.0
Georgia	80.0	82.0	82.0	82.0	462.0	462.0	425.0	449.0
Hawaii	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	651.0	654.0	652.0	651.0	3,995.0	4,210.0	4,193.0	4,014.0
Illinois	83.0	83.0	82.0	81.0	461.0	462.0	423.0	428.0
Indiana	193.0	196.0	193.0	186.0	1,138.0	1,186.0	1,119.0	1,089.0
Iowa	224.0	228.0	226.0	225.0	1,374.0	1,405.0	1,382.0	1,377.0
Kansas	174.0	174.0	171.0	168.0	1,047.0	1,040.0	1,008.0	1,003.0
Kentucky	47.0	46.0	45.0	45.0	239.0	242.0	212.0	214.0
Louisiana	10.0	9.5	9.0	9.0	38.0	35.0	25.0	28.0
Maine	27.0	27.0	26.0	26.0	146.0	149.0	141.0	136.0
Maryland	43.0	43.0	42.0	41.0	231.0	229.0	209.0	206.0
Massachusetts	10.0	10.0	9.5	9.5	50.0	52.0	48.0	47.0
Michigan	441.0	445.0	442.0	434.0	2,978.0	3,061.0	3,005.0	2,908.0
Minnesota	460.0	462.0	461.0	461.0	2,624.0	2,656.0	2,655.0	2,613.0
Mississippi	8.0	7.5	7.0	7.0	32.0	29.0	22.0	23.0
Missouri	72.0	72.0	70.0	69.0	260.0	283.0	237.0	230.0
Montana	11.0	11.0	11.0	11.0	61.0	62.0	61.0	59.0
Nebraska	59.0	58.0	58.0	58.0	362.0	359.0	351.0	351.0
Nevada	33.0	33.0	33.0	32.0	201.0	213.0	203.0	193.0
New Hampshire	10.5	10.5	10.5	10.5	58.0	58.0	56.0	54.0
New Jersey	4.4	4.4	4.2	4.2	24.0	24.0	21.0	21.0
New Mexico	335.0	330.0	311.0	295.0	2,099.0	2,094.0	1,829.0	1,782.0
New York	626.0	629.0	629.0	624.0	3,846.0	3,987.0	3,895.0	3,812.0
North Carolina	40.0	40.0	39.0	39.0	239.0	239.0	217.0	222.0
North Dakota	15.0	15.0	15.0	15.0	82.0	86.0	85.0	82.0
Ohio	260.0	260.0	257.0	250.0	1,425.0	1,447.0	1,410.0	1,361.0
Oklahoma	40.0	40.0	38.0	39.0	178.0	181.0	157.0	176.0
Oregon	125.0	126.0	125.0	125.0	647.0	673.0	658.0	644.0
Pennsylvania	475.0	475.0	474.0	470.0	2,565.0	2,613.0	2,483.0	2,453.0
Rhode Island	0.5	0.5	0.5	0.5	2.6	2.6	2.5	2.4
South Carolina	9.5	9.0	9.0	9.0	44.0	42.0	35.0	38.0
South Dakota	144.0	154.0	160.0	166.0	814.0	889.0	939.0	961.0
Tennessee	29.0	29.0	28.0	27.0	135.0	136.0	119.0	118.0
Texas	617.0	622.0	625.0	625.0	3,883.0	3,971.0	3,816.0	3,929.0
Utah	96.0	97.0	95.0	94.0	546.0	576.0	562.0	539.0
Vermont	120.0	119.0	120.0	120.0	642.0	655.0	640.0	629.0
Virginia	74.0	73.0	72.0	71.0	381.0	380.0	351.0	359.0
Washington	278.0	275.0	267.0	262.0	1,653.0	1,687.0	1,613.0	1,551.0
West Virginia	5.0	5.0	5.0	5.0	19.0	19.0	18.0	19.0
Wisconsin	1,265.0	1,274.0	1,278.0	1,277.0	7,820.0	8,016.0	8,020.0	7,846.0
Wyoming	8.0	8.5	8.5	9.0	52.0	55.7	56.4	56.2
Other States ³	0.8	0.9	0.9	0.9	1.7	1.3	1.3	1.2
United States	9,466.0	9,503.0	9,442.0	9,381.0	56,847.0	58,147.0	55,836.0	55,428.0

(D) Withheld to avoid disclosing data for individual operations.

¹ Quarterly average includes dry cows, excludes heifers not yet fresh.

² Excludes milk sucked by calves.

³ Other States includes Alaska and Hawaii.

Licensed Dairy Herds – States and United States: 2020 and 2021

	Licensed dairy herds ¹	
	2020 (number)	2021 (number)
Alabama	20	15
Alaska	1	1
Arizona	90	80
Arkansas	35	35
California	1,215	1,195
Colorado	120	110
Connecticut	95	85
Delaware	20	15
Florida	85	75
Georgia	130	110
Hawaii	1	1
Idaho	440	430
Illinois	525	495
Indiana	805	770
Iowa	965	880
Kansas	240	230
Kentucky	450	420
Louisiana	75	70
Maine	200	190
Maryland	340	320
Massachusetts	110	110
Michigan	1,200	1,140
Minnesota	2,350	2,215
Mississippi	55	50
Missouri	720	650
Montana	50	50
Nebraska	120	120
Nevada	20	20
New Hampshire	100	95
New Jersey	40	35
New Mexico	140	120
New York	3,650	3,430
North Carolina	145	140
North Dakota	60	55
Ohio	1,745	1,620
Oklahoma	130	100
Oregon	200	190
Pennsylvania	5,430	5,200
Rhode Island	10	10
South Carolina	35	35
South Dakota	180	165
Tennessee	180	160
Texas	360	340
Utah	150	140
Vermont	640	580
Virginia	475	421
Washington	340	330
West Virginia	45	35
Wisconsin	7,110	6,770
Wyoming	10	5
United States	31,652	29,858

¹ Average number of dairy farms licensed to sell milk, based on counts collected from State and other regulatory agencies.

Statistical Methodology

Survey Procedures: Primary data used to determine these estimates were obtained from a sample of producers. Individual States maintain a list of all known milk producers and information on the size of their herd. States use all known sources of producers to ensure that their lists are as complete as possible. Generally, all large producers and a sample of small producers are included in the survey. Questionnaires are mailed to producers near the end of the month to obtain data for the first day of the month. Additional reports are obtained by telephone, as needed, to supplement the mail response. Where feasible, States utilize state and federal administrative data to estimate milk production. This eliminates duplication of data gathering by different government agencies such as Agricultural Marketing Service (AMS) Dairy Market News. Indications of milk cow inventory are also obtained in the January Cattle Survey.

Estimation Procedures: Regional Field Offices prepare these estimates by using a combination of survey indications, historic trends, and any available administrative data. Individual State estimates are reviewed by the Agricultural Statistics Board for reasonableness.

Revision Policy: Milk production, milk per cow, and number of milk cows are subject to revision the following month after initial publication for monthly States or the following quarter for the quarterly States. Normally, administrative data from Federal Market Orders, State Departments of Agriculture, or other sources are the main basis for revisions. However, administrative data for all States may not be available in time for these revisions. Estimates are again subject to revisions in February each year based on additional administrative data. In the event that additional changes are necessary, a third revision is possible in February the following year. Estimates are again reviewed after data from the five-year Census of Agriculture are available. No revisions are made after that date.

Reliability: Since all operations with dairy animals are not included in the sample, survey estimates are subject to sampling variability. Survey results are also subject to non-sampling errors such as omissions, duplications, and mistakes in reporting, recording, and processing the data. The effects of these errors cannot be measured directly. They are minimized through rigid quality controls in the data collection process and through a careful review of all reported data for consistency and reasonableness.

To assist users in evaluating the reliability of the estimates in this report, the "Root Mean Square Error" is shown for selected items in the table below. The "Root Mean Square Error" is a statistical measure based on past performance and is computed using the differences between first and final estimates. The "Root Mean Square Error" for the 24 State milk production estimates over the past 24 months is 0.4 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 18.2 billion pounds by more than 0.4 percent. Chances are 9 out of 10 that the difference will not exceed 0.7 percent.

Reliability of Monthly Milk Production Estimates

[Based on data for the past 24 months]

Item	Root mean square error	90 percent confidence level	Difference between first and latest estimate				
			Average	Smallest	Largest	Months	
						Below latest	Above latest
	(percent)	(percent)	(1,000)	(1,000)	(1,000)	(number)	(number)
Milk production	0.4	0.7	58	4	181	17	7
All Milk cows	0.2	0.3	12	1	30	16	8

Information Contacts

Listed below are the commodity specialists in the Livestock Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@usda.gov.

Travis Averill, Chief, Livestock Branch	(202) 692-0069
Scott Hollis, Head, Livestock Section	(202) 690-2424
Sherry Bertramsen – Livestock Slaughter	(202) 690-8632
Ryan Cowen – Cattle, Cattle on Feed	(202) 720-3040
Anthony Fischer – Hogs and Pigs	(202) 720-3106
Logan Hartley-Sanguinett – Sheep and Goats	(202) 690-3236
Mike Miller – Milk Production and Milk Cows	(202) 720-3278
Suzanne Richards – Dairy Products	(202) 720-4448

Access to NASS Reports

For your convenience, you may access NASS reports and products the following ways:

- All reports are available electronically, at no cost, on the NASS web site: www.nass.usda.gov
- Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit www.nass.usda.gov and click on “National” or “State” in upper right corner above “search” box to create an account and select the reports you would like to receive.
- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist notifications@usda-esmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: nass@usda.gov.

The U.S. Department of Agriculture (USDA) prohibits discrimination against its customers, employees, and applicants for employment on the basis of race, color, national origin, age, disability, sex, gender identity, religion, reprisal, and where applicable, political beliefs, marital status, familial or parental status, sexual orientation, or all or part of an individual's income is derived from any public assistance program, or protected genetic information in employment or in any program or activity conducted or funded by the Department. (Not all prohibited bases will apply to all programs and/or employment activities.)

If you wish to file a Civil Rights program complaint of discrimination, complete the [USDA Program Discrimination Complaint Form](#) (PDF), found online at www.ascr.usda.gov/filing-program-discrimination-complaint-usda-customer, or at any USDA office, or call (866) 632-9992 to request the form. You may also write a letter containing all of the information requested in the form. Send your completed complaint form or letter to us by mail at U.S. Department of Agriculture, Director, Office of Adjudication, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, by fax (202) 690-7442 or email at program.intake@usda.gov.