



Milk Production

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January Milk Production up 1.8 Percent

Milk production in the 24 major States during January totaled 18.3 billion pounds, up 1.8 percent from January 2020. December revised production, at 18.0 billion pounds, was up 2.6 percent from December 2019. The December revision represented a decrease of 74 million pounds or 0.4 percent from last month's preliminary production estimate.

Production per cow in the 24 major States averaged 2,049 pounds for January, 15 pounds above January 2020.

The number of milk cows on farms in the 24 major States was 8.93 million head, 92,000 head more than January 2020, and 6,000 head more than December 2020.

2020 Annual Milk Production up 2.2 Percent from 2019

The annual production of milk for the United States during 2020 was 223 billion pounds, 2.2 percent above 2019. Revisions to 2019 production increased the annual total 59 million pounds. Revised 2020 production was up 165 million pounds from last month's publication. Annual total milk production has increased 13.7 percent from 2011.

Production per cow in the United States averaged 23,777 pounds for 2020, 382 pounds above 2019. The average annual rate of milk production per cow has increased 11.5 percent from 2011.

The average number of milk cows on farms in the United States during 2020 was 9.39 million head, up 0.5 percent from 2019. The average number of milk cows was revised up 6,000 head for 2020. The average annual number of milk cows has increased 2.1 percent from 2011.

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Milk Cows and Production by Quarter - United States: 2020-2021

[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		
	2020	2021	2020	2021	2020	2021	Change from 2020
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January-March	9,378		5,990		56,174		
April-June	9,364		5,988		56,070		
July-September	9,380		5,908		55,419		
October-December	9,429		5,892		55,557		
Annual	9,388		23,777		223,220		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Cows and Production by Month – 24 Selected States: 2020-2021

[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		
	2020	2021	2020	2021	2020	2021	Change from 2020
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January	8,837	8,929	2,034	2,049	17,974	18,296	1.8
February	8,848		1,926		17,038		
March	8,861		2,085		18,474		
April	8,855		2,009		17,787		
May	8,838		2,044		18,061		
June	8,834		1,984		17,530		
July	8,854		2,024		17,919		
August	8,857		2,010		17,799		
September	8,877		1,941		17,226		
October	8,897		1,996		17,758		
November	8,914		1,938		17,274		
December	8,923		2,019		18,012		
Annual	8,866		24,008		212,852		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Estimated Milk Cows and Production by Month – United States: 2020-2021

[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		
	2020	2021	2020	2021	2020	2021	Change from 2020
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January	9,365	9,450	2,016	2,029	18,877	19,170	1.6
February	9,377		1,908		17,895		
March	9,391		2,066		19,402		
April	9,377		1,993		18,684		
May	9,360		2,027		18,972		
June	9,355		1,968		18,414		
July	9,372		2,001		18,756		
August	9,374		1,988		18,632		
September	9,395		1,919		18,031		
October	9,414		1,976		18,603		
November	9,432		1,919		18,103		
December	9,442		1,997		18,851		
Annual	9,388		23,777		223,220		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Cows and Production – 24 Selected States: January 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)
Arizona	196	197	2,140	2,150	419	424	1.2
California	1,724	1,720	2,050	2,040	3,534	3,509	-0.7
Colorado	191	201	2,210	2,220	422	446	5.7
Florida	116	111	1,850	1,840	215	204	-5.1
Georgia	82	81	1,965	1,990	161	161	-
Idaho	645	646	2,090	2,080	1,348	1,344	-0.3
Illinois	82	84	1,870	1,870	153	157	2.6
Indiana	176	192	1,970	1,990	347	382	10.1
Iowa	215	222	2,105	2,110	453	468	3.3
Kansas	169	172	2,035	2,045	344	352	2.3
Michigan	427	440	2,280	2,310	974	1,016	4.3
Minnesota	445	457	1,885	1,940	839	887	5.7
New Mexico	333	337	2,135	2,140	711	721	1.4
New York	625	625	2,065	2,080	1,291	1,300	0.7
Ohio	253	259	1,855	1,875	469	486	3.6
Oregon	127	125	1,755	1,760	223	220	-1.3
Pennsylvania	480	475	1,805	1,820	866	865	-0.1
South Dakota	128	141	1,950	1,940	250	274	9.6
Texas	585	615	2,145	2,150	1,255	1,322	5.3
Utah	96	95	1,935	1,945	186	185	-0.5
Vermont	124	120	1,825	1,830	226	220	-2.7
Virginia	76	74	1,765	1,760	134	130	-3.0
Washington	282	278	2,045	2,035	577	566	-1.9
Wisconsin	1,260	1,262	2,045	2,105	2,577	2,657	3.1
24-State Total	8,837	8,929	2,034	2,049	17,974	18,296	1.8

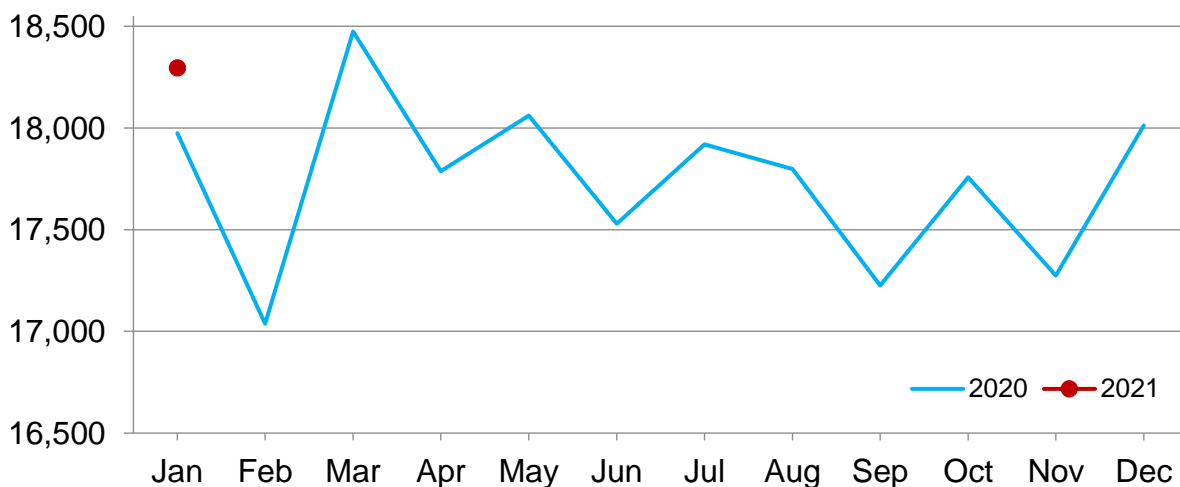
- Represents zero.

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 2019 and 2020

[May not add due to rounding]

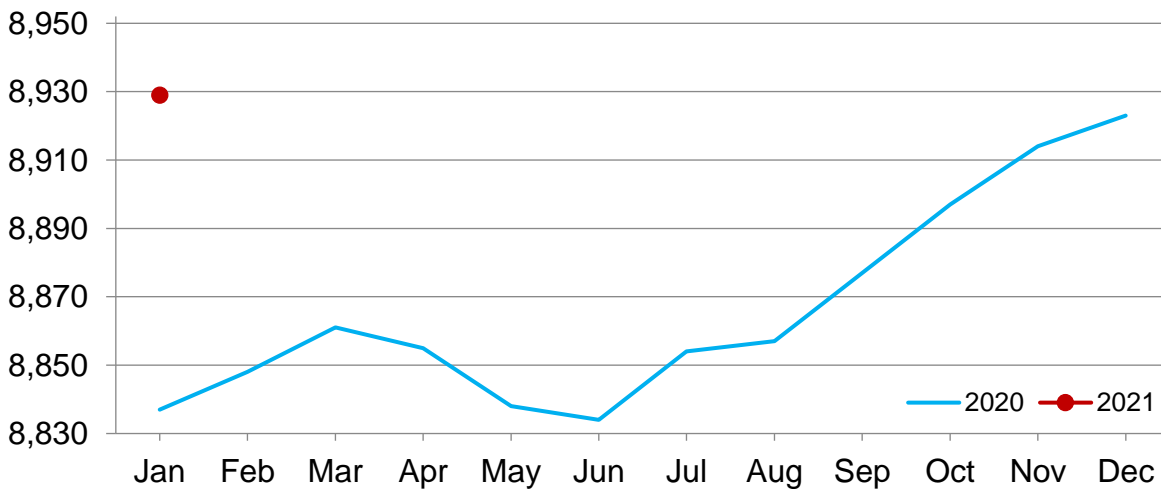
	Milk cows ¹		Milk per cow ²		Milk production ²		Change from 2019
	2019	2020	2019	2020	2019	2020	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	196	196	2,085	2,125	409	417	2.0
California	1,725	1,720	2,005	2,000	3,459	3,440	-0.5
Colorado	189	201	2,185	2,205	413	443	7.3
Florida	116	111	1,740	1,730	202	192	-5.0
Georgia	81	81	1,875	1,900	152	154	1.3
Idaho	640	646	2,070	2,055	1,325	1,328	0.2
Illinois	82	84	1,810	1,845	148	155	4.7
Indiana	176	191	1,940	1,990	341	380	11.4
Iowa	215	220	2,080	2,095	447	461	3.1
Kansas	167	173	2,010	2,005	336	347	3.3
Michigan	427	439	2,225	2,270	950	997	4.9
Minnesota	445	455	1,850	1,915	823	871	5.8
New Mexico	330	337	2,070	2,100	683	708	3.7
New York	626	626	2,020	2,070	1,265	1,296	2.5
Ohio	252	258	1,810	1,860	456	480	5.3
Oregon	127	125	1,725	1,725	219	216	-1.4
Pennsylvania	483	478	1,745	1,790	843	856	1.5
South Dakota	127	141	1,920	1,950	244	275	12.7
Texas	580	613	2,085	2,120	1,209	1,300	7.5
Utah	97	95	1,890	1,940	183	184	0.5
Vermont	124	120	1,805	1,810	224	217	-3.1
Virginia	74	74	1,700	1,725	126	128	1.6
Washington	282	279	2,000	2,005	564	559	-0.9
Wisconsin	1,262	1,260	2,005	2,070	2,530	2,608	3.1
24-State Total	8,823	8,923	1,989	2,019	17,551	18,012	2.6

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: 2011-2020

[May not add due to rounding]

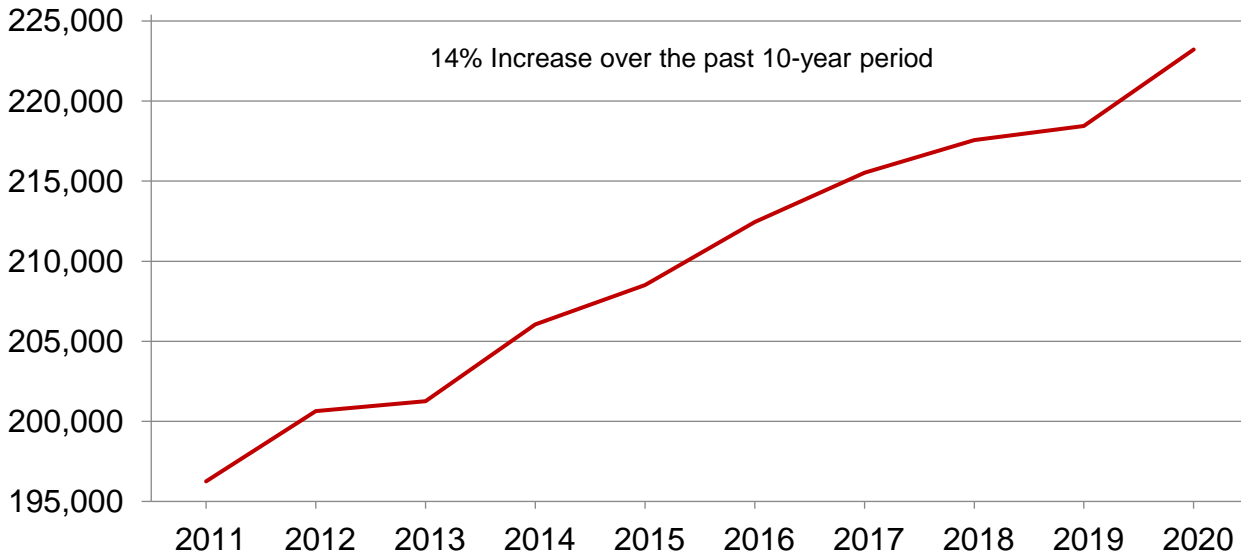
Year	Milk cows ¹ (1,000 head)	Production per cow ²		Milk production ²
		Milk (pounds)	Total (million pounds)	
2011	9,199	21,334	196,255	
2012	9,237	21,722	200,642	
2013	9,224	21,819	201,260	
2014	9,261	22,249	206,048	
2015	9,320	22,372	208,508	
2016	9,334	22,761	212,451	
2017	9,406	22,914	215,527	
2018	9,398	23,150	217,568	
2019	9,337	23,395	218,441	
2020	9,388	23,777	223,220	

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

² Excludes milk sucked by calves.

Milk Production – United States: 2011-2020

Million pounds



Milk Cows and Production – States and United States: 2019 and 2020

[May not add due to rounding]

State	Milk cows ¹		Milk per cow ²		Milk production ²		Change from 2019
	2019	2020	2019	2020	2019	2020	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Alabama	5.0	3.0	12,000	15,000	60.0	45.0	-25.0
Alaska	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
Arizona	198.0	199.0	24,096	24,568	4,771.0	4,889.0	2.5
Arkansas	5.0	5.0	13,400	12,800	67.0	64.0	-4.5
California	1,725.0	1,721.0	23,533	23,987	40,595.0	41,282.0	1.7
Colorado	186.0	197.0	25,844	26,142	4,807.0	5,150.0	7.1
Connecticut	19.0	19.0	22,526	23,053	428.0	438.0	2.3
Delaware	4.1	3.8	17,976	18,553	73.7	70.5	-4.3
Florida	116.0	113.0	20,224	20,257	2,346.0	2,289.0	-2.4
Georgia	82.0	81.0	21,598	21,877	1,771.0	1,772.0	0.1
Hawaii	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
Idaho	625.0	645.0	25,011	25,180	15,632.0	16,241.0	3.9
Illinois	84.0	83.0	20,810	21,530	1,748.0	1,787.0	2.2
Indiana	178.0	183.0	22,899	23,661	4,076.0	4,330.0	6.2
Iowa	218.0	218.0	24,271	24,651	5,291.0	5,374.0	1.6
Kansas	163.0	170.0	23,429	23,694	3,819.0	4,028.0	5.5
Kentucky	50.0	48.0	18,840	19,542	942.0	938.0	-0.4
Louisiana	10.0	10.0	13,500	13,400	135.0	134.0	-0.7
Maine	29.0	27.0	21,414	21,963	621.0	593.0	-4.5
Maryland	43.0	42.0	19,535	20,905	840.0	878.0	4.5
Massachusetts	10.0	10.0	19,300	19,900	193.0	199.0	3.1
Michigan	426.0	430.0	26,725	27,170	11,385.0	11,683.0	2.6
Minnesota	448.0	447.0	22,147	22,705	9,922.0	10,149.0	2.3
Mississippi	8.0	8.0	15,750	16,375	126.0	131.0	4.0
Missouri	78.0	76.0	14,103	14,276	1,100.0	1,085.0	-1.4
Montana	12.0	12.0	21,583	21,167	259.0	254.0	-1.9
Nebraska	58.0	59.0	24,293	24,746	1,409.0	1,460.0	3.6
Nevada	33.0	31.0	23,091	24,677	762.0	765.0	0.4
New Hampshire	11.0	11.0	21,727	21,273	239.0	234.0	-2.1
New Jersey	5.0	5.0	20,000	19,800	100.0	99.0	-1.0
New Mexico	326.0	330.0	25,113	24,755	8,187.0	8,169.0	-0.2
New York	627.0	626.0	24,118	24,500	15,122.0	15,337.0	1.4
North Carolina	42.0	41.0	21,476	21,829	902.0	895.0	-0.8
North Dakota	15.0	15.0	21,733	21,867	326.0	328.0	0.6
Ohio	251.0	254.0	21,614	22,118	5,425.0	5,618.0	3.6
Oklahoma	41.0	42.0	17,829	17,452	731.0	733.0	0.3
Oregon	126.0	125.0	20,913	21,032	2,635.0	2,629.0	-0.2
Pennsylvania	490.0	482.0	20,629	21,320	10,108.0	10,276.0	1.7
Rhode Island	0.6	0.5	17,667	21,800	10.6	10.9	2.8
South Carolina	12.0	10.0	17,167	18,900	206.0	189.0	-8.3
South Dakota	125.0	135.0	22,480	23,111	2,810.0	3,120.0	11.0
Tennessee	32.0	30.0	17,219	18,067	551.0	542.0	-1.6
Texas	565.0	595.0	24,513	24,926	13,850.0	14,831.0	7.1
Utah	98.0	96.0	23,061	23,198	2,260.0	2,227.0	-1.5
Vermont	126.0	122.0	21,405	21,328	2,697.0	2,602.0	-3.5
Virginia	75.0	75.0	19,867	20,293	1,490.0	1,522.0	2.1
Washington	280.0	280.0	24,225	24,346	6,783.0	6,817.0	0.5
West Virginia	6.0	6.0	15,000	14,833	90.0	89.0	-1.1
Wisconsin	1,268.0	1,259.0	24,123	24,408	30,588.0	30,730.0	0.5
Wyoming	6.0	7.5	24,433	25,173	146.6	188.8	28.8
Other States ³	1.1	0.9	4,455	5,333	4.9	4.8	-2.0
United States	9,337.0	9,388.0	23,395	23,777	218,441.0	223,220.0	2.2

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

(NA) Not available.

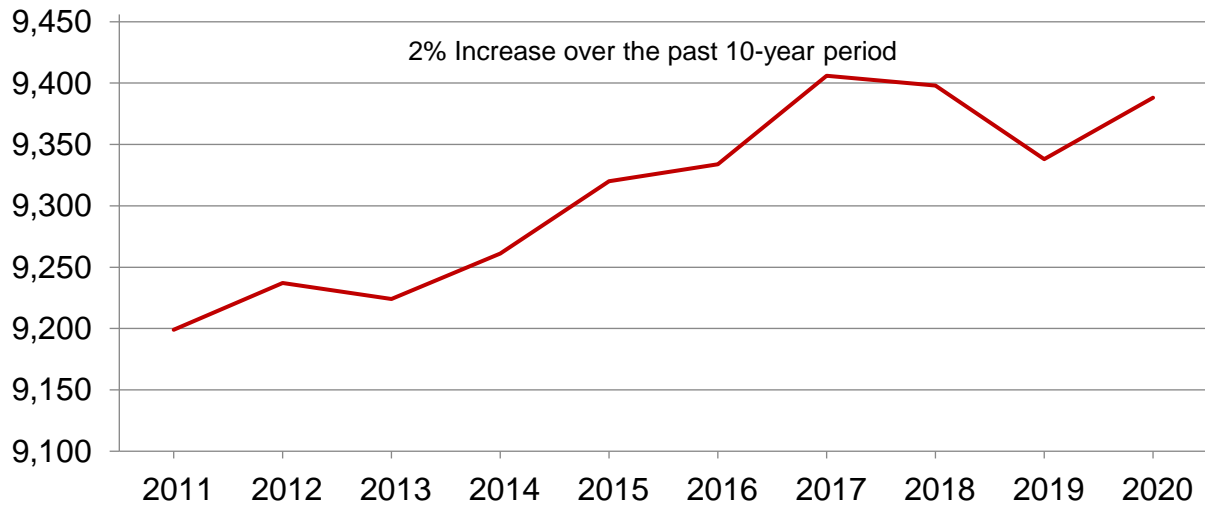
¹ Average number during year, excluding heifers not yet fresh.

² Excludes milk sucked by calves.

³ Other States includes Alaska and Hawaii.

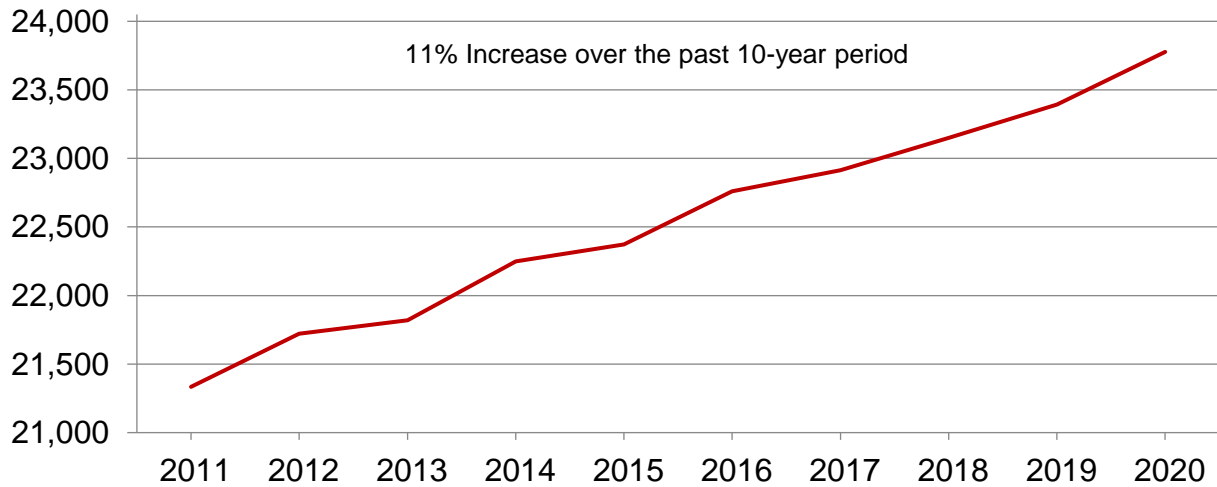
Milk Cows – United States: 2011-2020

Thousand head



Production per Cow – United States: 2011-2020

Pounds



Milk Cows by Month – 24 Selected States, 24 State Total, and United States: 2019

[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	204	202	201	198	195	194
California	1,726	1,725	1,725	1,725	1,725	1,725
Colorado	180	182	182	182	185	186
Florida	116	116	116	116	115	115
Georgia	82	82	82	83	83	82
Idaho	617	618	618	618	620	621
Illinois	85	85	84	84	84	84
Indiana	181	181	180	179	179	179
Iowa	220	220	219	219	219	219
Kansas	162	163	163	163	162	162
Michigan	424	424	425	425	425	425
Minnesota	450	450	448	448	448	447
New Mexico	324	322	322	321	324	324
New York	627	627	627	627	627	627
Ohio	253	253	251	250	248	249
Oregon	126	125	125	124	124	125
Pennsylvania	500	500	495	495	493	490
South Dakota	124	124	124	123	123	123
Texas	548	553	557	562	565	565
Utah	100	99	98	98	98	97
Vermont	126	126	126	126	126	126
Virginia	78	78	76	76	76	74
Washington	280	278	277	278	278	278
Wisconsin	1,270	1,270	1,270	1,269	1,269	1,268
24-State total	8,803	8,803	8,791	8,789	8,791	8,785
United States ¹	9,352	9,350	9,333	9,332	9,334	9,329

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	196	196	198	198	197	196	198
California	1,725	1,725	1,725	1,725	1,725	1,725	1,725
Colorado	187	187	189	190	190	189	186
Florida	115	116	116	118	117	116	116
Georgia	81	80	80	81	81	81	82
Idaho	626	628	630	632	634	640	625
Illinois	83	83	83	81	82	82	84
Indiana	176	175	175	176	176	176	178
Iowa	217	217	217	217	216	215	218
Kansas	162	162	163	164	165	167	163
Michigan	425	427	428	428	427	427	426
Minnesota	447	447	447	447	446	445	448
New Mexico	326	326	329	330	330	330	326
New York	627	627	627	626	626	626	627
Ohio	250	250	252	252	252	252	251
Oregon	126	126	126	127	127	127	126
Pennsylvania	485	485	485	485	485	483	490
South Dakota	123	124	126	127	127	127	125
Texas	565	567	570	575	575	580	565
Utah	97	96	97	97	97	97	98
Vermont	126	126	125	125	124	124	126
Virginia	74	74	74	74	74	74	75
Washington	281	281	281	281	281	282	280
Wisconsin	1,268	1,267	1,266	1,265	1,264	1,262	1,268
24-State Total	8,788	8,792	8,809	8,821	8,818	8,823	8,801
United States ¹	9,318	9,320	9,338	9,348	9,345	9,349	9,337

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: 2020

[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	196	198	200	200	200	200
California	1,724	1,723	1,722	1,721	1,721	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	647	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	125	125	124
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	123	123
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	8,837	8,848	8,861	8,855	8,838	8,834
United States ¹	9,365	9,377	9,391	9,377	9,360	9,355

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	200	200	200	200	198	196	199
California	1,721	1,721	1,720	1,720	1,720	1,720	1,721
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	428	430	431	436	439	430
Minnesota	445	445	450	452	455	455	447
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	124	124	125	125	125	125	125
Pennsylvania	482	482	482	482	482	478	482
South Dakota	137	138	140	140	140	141	135
Texas	590	593	598	603	608	613	595
Utah	95	95	94	95	95	95	96
Vermont	122	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	8,854	8,857	8,877	8,897	8,914	8,923	8,866
United States ¹	9,372	9,374	9,395	9,414	9,432	9,442	9,388

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: 2019

[Excludes milk sucked by calves]

State	January	February	March	April	May	June
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)
Arizona	2,095	1,960	2,195	2,135	2,125	1,965
California	2,030	1,860	2,070	2,025	2,060	1,900
Colorado	2,210	1,990	2,200	2,155	2,220	2,165
Florida	1,810	1,700	1,880	1,785	1,850	1,730
Georgia	1,940	1,800	2,010	1,890	1,870	1,770
Idaho	2,080	1,875	2,095	2,070	2,170	2,115
Illinois	1,825	1,690	1,880	1,810	1,860	1,750
Indiana	1,950	1,770	1,985	1,960	2,030	1,940
Iowa	2,085	1,890	2,075	2,020	2,100	2,020
Kansas	1,975	1,795	1,970	1,965	2,020	1,940
Michigan	2,260	2,055	2,285	2,235	2,350	2,285
Minnesota	1,885	1,700	1,880	1,835	1,925	1,885
New Mexico	2,130	1,970	2,210	2,165	2,215	2,130
New York	2,015	1,840	2,055	2,020	2,115	2,040
Ohio	1,805	1,660	1,855	1,830	1,910	1,835
Oregon	1,770	1,600	1,785	1,760	1,830	1,760
Pennsylvania	1,745	1,605	1,795	1,755	1,810	1,720
South Dakota	1,925	1,725	1,895	1,835	1,920	1,885
Texas	2,065	1,910	2,125	2,090	2,120	2,030
Utah	1,935	1,755	1,940	1,930	2,010	1,960
Vermont	1,825	1,665	1,855	1,800	1,855	1,795
Virginia	1,690	1,545	1,760	1,720	1,750	1,645
Washington	2,045	1,815	2,030	2,030	2,115	2,050
Wisconsin	2,060	1,860	2,055	2,000	2,095	2,040
24-State total	2,010	1,833	2,038	1,996	2,064	1,975
United States ¹	1,990	1,815	2,019	1,975	2,042	1,954

State	July	August	September	October	November	December	Annual average ²
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)
Arizona	1,930	1,850	1,810	1,975	1,980	2,085	24,096
California	1,965	1,925	1,860	1,940	1,890	2,005	23,533
Colorado	2,205	2,200	2,110	2,160	2,085	2,185	25,844
Florida	1,670	1,560	1,415	1,515	1,570	1,740	20,224
Georgia	1,765	1,690	1,640	1,715	1,755	1,875	21,598
Idaho	2,190	2,185	2,060	2,095	2,000	2,070	25,011
Illinois	1,685	1,670	1,600	1,690	1,700	1,810	20,810
Indiana	1,880	1,900	1,835	1,920	1,825	1,940	22,899
Iowa	1,990	2,030	1,970	2,040	1,980	2,080	24,271
Kansas	1,970	1,955	1,910	1,975	1,920	2,010	23,429
Michigan	2,255	2,265	2,170	2,230	2,125	2,225	26,725
Minnesota	1,895	1,895	1,810	1,845	1,770	1,850	22,147
New Mexico	2,130	2,085	2,030	2,040	1,970	2,070	25,113
New York	2,050	2,055	1,970	2,015	1,935	2,020	24,118
Ohio	1,820	1,830	1,735	1,790	1,730	1,810	21,614
Oregon	1,810	1,785	1,715	1,755	1,675	1,725	20,913
Pennsylvania	1,715	1,710	1,650	1,705	1,665	1,745	20,629
South Dakota	1,910	1,940	1,865	1,900	1,825	1,920	22,480
Texas	2,065	2,030	1,995	2,035	1,955	2,085	24,513
Utah	2,010	1,995	1,925	1,945	1,860	1,890	23,061
Vermont	1,810	1,800	1,750	1,790	1,725	1,805	21,405
Virginia	1,605	1,590	1,555	1,620	1,610	1,700	19,867
Washington	2,120	2,090	2,005	2,025	1,930	2,000	24,225
Wisconsin	2,050	2,070	1,975	2,010	1,915	2,005	24,123
24-State total	1,997	1,984	1,907	1,961	1,893	1,989	23,647
United States ¹	1,972	1,961	1,885	1,940	1,873	1,968	23,395

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: 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	2,050	1,960	2,135	2,035	2,070	1,950
Colorado	2,210	2,065	2,225	2,160	2,220	2,150
Florida	1,850	1,770	1,885	1,805	1,770	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	2,105	1,975	2,110	2,040	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	2,065	1,945	2,110	2,045	2,075	2,040
Ohio	1,855	1,760	1,900	1,840	1,880	1,840
Oregon	1,755	1,660	1,780	1,760	1,825	1,765
Pennsylvania	1,805	1,725	1,870	1,820	1,815	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	1,780	1,740
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	2,034	1,926	2,085	2,009	2,044	1,984
United States ¹	2,016	1,908	2,066	1,993	2,027	1,968

State	July (pounds)	August (pounds)	September (pounds)	October (pounds)	November (pounds)	December (pounds)	Annual average ² (pounds)
Arizona	1,935	1,850	1,845	2,000	1,975	2,125	24,568
California	2,015	1,960	1,905	1,965	1,940	2,000	23,987
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	1,730	20,257
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	25,180
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	1,990	23,661
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	2,005	23,694
Michigan	2,310	2,320	2,220	2,270	2,180	2,270	27,170
Minnesota	1,940	1,955	1,870	1,910	1,835	1,915	22,705
New Mexico	2,015	2,055	2,025	2,065	1,995	2,100	24,755
New York	2,075	2,070	1,985	2,035	1,985	2,070	24,500
Ohio	1,870	1,865	1,790	1,850	1,780	1,860	22,118
Oregon	1,815	1,775	1,705	1,750	1,670	1,725	21,032
Pennsylvania	1,795	1,745	1,690	1,760	1,720	1,790	21,320
South Dakota	1,930	1,970	1,905	1,955	1,880	1,950	23,111
Texas	2,065	2,080	2,025	2,100	2,030	2,120	24,926
Utah	1,985	1,975	1,910	1,950	1,880	1,940	23,198
Vermont	1,770	1,775	1,725	1,765	1,725	1,810	21,328
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	1,985	2,070	24,408
24-State total	2,024	2,010	1,941	1,996	1,938	2,019	24,008
United States ¹	2,001	1,988	1,919	1,976	1,919	1,997	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 Production by Month – 24 Selected States, 24 State Total, and United States: 2019

[Excludes milk sucked by calves]

State	January	February	March	April	May	June
	(million pounds)	(million pounds)	(million pounds)	(million pounds)	(million pounds)	(million pounds)
Arizona	427	396	441	423	414	381
California	3,504	3,209	3,571	3,493	3,554	3,278
Colorado	398	362	400	392	411	403
Florida	210	197	218	207	213	199
Georgia	159	148	165	157	155	145
Idaho	1,283	1,159	1,295	1,279	1,345	1,313
Illinois	155	144	158	152	156	147
Indiana	353	320	357	351	363	347
Iowa	459	416	454	442	460	442
Kansas	320	293	321	320	327	314
Michigan	958	871	971	950	999	971
Minnesota	848	765	842	822	862	843
New Mexico	690	634	712	695	718	690
New York	1,263	1,154	1,288	1,267	1,326	1,279
Ohio	457	420	466	458	474	457
Oregon	223	200	223	218	227	220
Pennsylvania	873	803	889	869	892	843
South Dakota	239	214	235	226	236	232
Texas	1,132	1,056	1,184	1,175	1,198	1,147
Utah	194	174	190	189	197	190
Vermont	230	210	234	227	234	226
Virginia	132	121	134	131	133	122
Washington	573	505	562	564	588	570
Wisconsin	2,616	2,362	2,610	2,538	2,659	2,587
24-State total	17,696	16,133	17,920	17,545	18,141	17,346
United States ¹	18,612	16,966	18,847	18,435	19,062	18,228

State	July	August	September	October	November	December	Annual total ²
	(million pounds)	(million pounds)	(million pounds)	(million pounds)	(million pounds)	(million pounds)	(million pounds)
Arizona	378	363	358	391	390	409	4,771
California	3,390	3,321	3,209	3,347	3,260	3,459	40,595
Colorado	412	411	399	410	396	413	4,807
Florida	192	181	164	179	184	202	2,346
Georgia	143	135	131	139	142	152	1,771
Idaho	1,371	1,372	1,298	1,324	1,268	1,325	15,632
Illinois	140	139	133	137	139	148	1,748
Indiana	331	333	321	338	321	341	4,076
Iowa	432	441	427	443	428	447	5,291
Kansas	319	317	311	324	317	336	3,819
Michigan	958	967	929	954	907	950	11,385
Minnesota	847	847	809	825	789	823	9,922
New Mexico	694	680	668	673	650	683	8,187
New York	1,285	1,288	1,235	1,261	1,211	1,265	15,122
Ohio	455	458	437	451	436	456	5,425
Oregon	228	225	216	223	213	219	2,635
Pennsylvania	832	829	800	827	808	843	10,108
South Dakota	235	241	235	241	232	244	2,810
Texas	1,167	1,151	1,137	1,170	1,124	1,209	13,850
Utah	195	192	187	189	180	183	2,260
Vermont	228	227	219	224	214	224	2,697
Virginia	119	118	115	120	119	126	1,490
Washington	596	587	563	569	542	564	6,783
Wisconsin	2,599	2,623	2,500	2,543	2,421	2,530	30,588
24-State total	17,546	17,446	16,801	17,302	16,691	17,551	208,118
United States ¹	18,379	18,275	17,600	18,138	17,499	18,400	218,441

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: 2020

[Excludes milk sucked by calves]

State	January	February	March	April	May	June
	(million pounds)	(million pounds)	(million pounds)	(million pounds)	(million pounds)	(million pounds)
Arizona	419	416	457	431	429	403
California	3,534	3,377	3,676	3,502	3,562	3,356
Colorado	422	399	432	419	435	424
Florida	215	205	219	208	200	186
Georgia	161	152	163	154	152	143
Idaho	1,348	1,267	1,381	1,352	1,392	1,347
Illinois	153	147	159	153	154	149
Indiana	347	329	360	350	357	360
Iowa	453	429	462	447	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	1,291	1,218	1,321	1,280	1,299	1,277
Ohio	469	445	481	466	476	466
Oregon	223	211	226	220	228	219
Pennsylvania	866	833	907	883	877	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	214
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	17,974	17,038	18,474	17,787	18,061	17,530
United States ¹	18,877	17,895	19,402	18,684	18,972	18,414

State	July	August	September	October	November	December	Annual total ²
	(million pounds)	(million pounds)	(million pounds)	(million pounds)	(million pounds)	(million pounds)	(million pounds)
Arizona	387	370	369	400	391	417	4,889
California	3,468	3,373	3,277	3,380	3,337	3,440	41,282
Colorado	443	441	429	439	424	443	5,150
Florida	183	174	162	171	174	192	2,289
Georgia	142	136	132	141	142	154	1,772
Idaho	1,425	1,413	1,338	1,355	1,295	1,328	16,241
Illinois	145	143	138	146	145	155	1,787
Indiana	367	372	370	380	358	380	4,330
Iowa	445	451	439	452	439	461	5,374
Kansas	335	339	328	341	337	347	4,028
Michigan	989	993	955	978	950	997	11,683
Minnesota	863	870	842	863	835	871	10,149
New Mexico	657	670	662	686	666	708	8,169
New York	1,299	1,296	1,243	1,274	1,243	1,296	15,337
Ohio	475	474	455	474	457	480	5,618
Oregon	225	220	213	219	209	216	2,629
Pennsylvania	865	841	815	848	829	856	10,276
South Dakota	264	272	267	274	263	275	3,120
Texas	1,218	1,233	1,211	1,266	1,234	1,300	14,831
Utah	189	188	180	185	179	184	2,227
Vermont	216	215	207	212	207	217	2,602
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	2,501	2,608	30,730
24-State total	17,919	17,799	17,226	17,758	17,274	18,012	212,852
United States ¹	18,756	18,632	18,031	18,603	18,103	18,851	223,220

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: 2019

[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	5.0	5.0	4.5	4.0	19.0	17.0	12.0	12.0
Alaska	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Arizona	202.0	196.0	197.0	197.0	1,264.0	1,218.0	1,099.0	1,190.0
Arkansas	5.5	5.5	5.0	5.0	18.0	19.0	15.0	15.0
California	1,725.0	1,725.0	1,725.0	1,725.0	10,284.0	10,325.0	9,920.0	10,066.0
Colorado	181.0	184.0	188.0	190.0	1,160.0	1,206.0	1,222.0	1,219.0
Connecticut	19.5	19.5	19.0	19.5	109.0	108.0	104.0	107.0
Delaware	4.5	4.2	4.0	3.8	21.6	19.2	16.2	16.7
Florida	116.0	115.0	116.0	117.0	625.0	619.0	537.0	565.0
Georgia	82.0	83.0	80.0	81.0	472.0	457.0	409.0	433.0
Hawaii	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	618.0	620.0	628.0	635.0	3,737.0	3,937.0	4,041.0	3,917.0
Illinois	85.0	84.0	83.0	82.0	457.0	455.0	412.0	424.0
Indiana	181.0	179.0	175.0	176.0	1,030.0	1,061.0	985.0	1,000.0
Iowa	220.0	219.0	217.0	216.0	1,329.0	1,344.0	1,300.0	1,318.0
Kansas	163.0	162.0	162.0	165.0	934.0	961.0	947.0	977.0
Kentucky	52.0	51.0	49.0	49.0	253.0	252.0	213.0	224.0
Louisiana	11.0	10.5	10.0	10.0	40.0	37.0	27.0	31.0
Maine	29.0	30.0	29.0	28.0	155.0	162.0	157.0	147.0
Maryland	43.0	43.0	42.0	42.0	218.0	217.0	197.0	208.0
Massachusetts	10.5	10.5	10.0	10.0	48.0	49.0	48.0	48.0
Michigan	424.0	425.0	427.0	427.0	2,800.0	2,920.0	2,854.0	2,811.0
Minnesota	449.0	448.0	447.0	446.0	2,455.0	2,527.0	2,503.0	2,437.0
Mississippi	8.5	8.5	8.0	8.0	35.0	34.0	27.0	30.0
Missouri	79.0	79.0	77.0	77.0	285.0	303.0	258.0	254.0
Montana	11.5	11.5	11.5	12.0	64.0	65.0	66.0	64.0
Nebraska	59.0	58.0	58.0	58.0	355.0	354.0	345.0	355.0
Nevada	33.0	33.0	33.0	32.0	190.0	195.0	193.0	184.0
New Hampshire	11.5	11.5	11.0	11.0	60.0	62.0	59.0	58.0
New Jersey	5.0	4.8	4.8	4.7	26.0	26.0	24.0	24.0
New Mexico	323.0	323.0	327.0	330.0	2,036.0	2,103.0	2,042.0	2,006.0
New York	627.0	627.0	627.0	626.0	3,705.0	3,872.0	3,808.0	3,737.0
North Carolina	43.0	43.0	41.0	41.0	236.0	236.0	213.0	217.0
North Dakota	14.5	14.5	15.0	15.0	80.0	83.0	83.0	80.0
Ohio	252.0	249.0	251.0	252.0	1,343.0	1,389.0	1,350.0	1,343.0
Oklahoma	41.0	42.0	41.0	41.0	190.0	192.0	170.0	179.0
Oregon	125.0	124.0	126.0	127.0	646.0	665.0	669.0	655.0
Pennsylvania	498.0	493.0	485.0	484.0	2,565.0	2,604.0	2,461.0	2,478.0
Rhode Island	0.7	0.6	0.6	0.6	2.6	2.7	2.7	2.6
South Carolina	13.0	12.0	11.0	11.0	59.0	55.0	45.0	47.0
South Dakota	124.0	123.0	124.0	127.0	688.0	694.0	711.0	717.0
Tennessee	33.0	32.0	31.0	31.0	150.0	145.0	126.0	130.0
Texas	553.0	564.0	567.0	577.0	3,372.0	3,520.0	3,455.0	3,503.0
Utah	99.0	98.0	97.0	97.0	558.0	576.0	574.0	552.0
Vermont	126.0	126.0	126.0	124.0	674.0	687.0	674.0	662.0
Virginia	77.0	75.0	74.0	74.0	387.0	386.0	352.0	365.0
Washington	278.0	278.0	281.0	281.0	1,640.0	1,722.0	1,746.0	1,675.0
West Virginia	6.5	6.0	6.0	6.0	24.0	23.0	22.0	21.0
Wisconsin	1,270.0	1,269.0	1,267.0	1,264.0	7,588.0	7,784.0	7,722.0	7,494.0
Wyoming	6.0	6.0	6.0	6.0	35.9	36.5	37.0	37.2
Other States ³	1.3	1.0	1.0	1.1	2.0	0.9	0.9	1.1
United States	9,345.0	9,332.0	9,325.0	9,347.0	54,425.0	55,725.0	54,254.0	54,037.0

(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: 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	14.0	12.0	9.0	10.0
Alaska	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Arizona	198.0	200.0	200.0	198.0	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	1,723.0	1,721.0	1,721.0	1,720.0	10,587.0	10,420.0	10,118.0	10,157.0
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	114.0	110.0	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	594.0	519.0	537.0
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	4,091.0	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	1,118.0
Iowa	217.0	218.0	218.0	219.0	1,344.0	1,343.0	1,335.0	1,352.0
Kansas	170.0	168.0	170.0	172.0	1,017.0	984.0	1,002.0	1,025.0
Kentucky	49.0	48.0	47.0	47.0	251.0	253.0	215.0	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	225.0	223.0	209.0	221.0
Massachusetts	10.0	10.0	10.0	10.0	51.0	51.0	49.0	48.0
Michigan	427.0	428.0	429.0	435.0	2,891.0	2,930.0	2,937.0	2,925.0
Minnesota	445.0	443.0	447.0	454.0	2,481.0	2,524.0	2,575.0	2,569.0
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	31.0	31.0	31.0	31.0	190.0	195.0	195.0	185.0
New Hampshire	11.0	11.0	11.0	11.0	61.0	60.0	57.0	56.0
New Jersey	4.7	4.7	4.7	4.6	26.0	25.0	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	3,830.0	3,856.0	3,838.0	3,813.0
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	124.0	125.0	660.0	667.0	658.0	644.0
Pennsylvania	483.0	483.0	482.0	481.0	2,606.0	2,616.0	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	52.0	40.0	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	608.0	3,714.0	3,655.0	3,662.0	3,800.0
Utah	97.0	96.0	95.0	95.0	555.0	567.0	557.0	548.0
Vermont	124.0	123.0	121.0	120.0	672.0	656.0	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	7,692.0
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	9,378.0	9,364.0	9,380.0	9,429.0	56,174.0	56,070.0	55,419.0	55,557.0

(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: 2019 and 2020

	Licensed dairy herds ¹	
	2019 (number)	2020 (number)
Alabama	25	20
Alaska	1	1
Arizona	90	90
Arkansas	40	35
California	1,255	1,215
Colorado	120	120
Connecticut	100	95
Delaware	20	20
Florida	90	85
Georgia	140	130
Hawaii	1	1
Idaho	460	440
Illinois	575	525
Indiana	865	805
Iowa	1,015	965
Kansas	270	240
Kentucky	480	450
Louisiana	85	75
Maine	220	200
Maryland	350	340
Massachusetts	120	110
Michigan	1,330	1,200
Minnesota	2,730	2,350
Mississippi	60	55
Missouri	800	720
Montana	55	55
Nebraska	140	120
Nevada	20	20
New Hampshire	100	100
New Jersey	45	40
New Mexico	140	140
New York	3,890	3,650
North Carolina	155	145
North Dakota	65	60
Ohio	1,940	1,745
Oklahoma	140	130
Oregon	220	200
Pennsylvania	5,730	5,430
Rhode Island	10	10
South Carolina	45	35
South Dakota	195	180
Tennessee	200	180
Texas	380	360
Utah	160	150
Vermont	680	640
Virginia	505	475
Washington	370	340
West Virginia	50	45
Wisconsin	7,720	7,110
Wyoming	10	10
United States	34,207	31,657

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 18.3 billion pounds by more than 0.4 percent. Chances are 9 out of 10 that the difference will not exceed 0.6 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	0.6	48	0	134	17	6
All Milk cows	0.1	0.2	10	0	26	19	4

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.

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Ryan Cowen – Cattle, Cattle on Feed	(202) 720-3040
Logan Hartley – Sheep and Goats	(202) 690-3236
Mike Miller – Milk Production and Milk Cows	(202) 720-3278
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Seth Riggins – Hogs and Pigs	(202) 720-3106

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- 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.

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