



Milk Production

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January Milk Production up 1.2 Percent

Milk production in the 24 major States during January totaled 17.9 billion pounds, up 1.2 percent from January 2019. December revised production, at 17.5 billion pounds, was up 1.3 percent from December 2018. The December revision represented an increase of 82 million pounds or 0.5 percent from last month's preliminary production estimate.

Production per cow in the 24 major States averaged 2,031 pounds for January, 21 pounds above January 2019.

The number of milk cows on farms in the 24 major States was 8.82 million head, 16,000 head more than January 2019, and 5,000 head more than December 2019.

2019 Annual Milk Production up 0.4 Percent from 2018

The annual production of milk for the United States during 2019 was 218 billion pounds, 0.4 percent above 2018. Revisions to 2018 production decreased the annual total 7 million pounds. Revised 2019 production was up 60 million pounds from last month's publication. Annual total milk production has increased 13.0 percent from 2010.

Production per cow in the United States averaged 23,391 pounds for 2019, 241 pounds above 2018. The average annual rate of milk production per cow has increased 10.6 percent from 2010.

The average number of milk cows on farms in the United States during 2019 was 9.34 million head, down 0.7 percent from 2018. The average number of milk cows was revised up 4,000 head for 2019. The average annual number of milk cows has increased 2.3 percent from 2010.

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Milk Cows and Production by Quarter – United States: 2019-2020

[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		
	2019	2020	2019	2020	2019	2020	Change from 2019
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January-March	9,346		5,823		54,423		
April-June	9,331		5,971		55,716		
July-September	9,322		5,818		54,237		
October-December	9,345		5,779		54,006		
Annual	9,336		23,391		218,382		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Cows and Production by Month – 24 Selected States: 2019-2020

[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		
	2019	2020	2019	2020	2019	2020	Change from 2019
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January	8,805	8,821	2,010	2,031	17,699	17,918	1.2
February	8,803		1,833		16,132		
March	8,789		2,038		17,916		
April	8,788		1,996		17,544		
May	8,790		2,063		18,137		
June	8,784		1,974		17,342		
July	8,785		1,997		17,542		
August	8,789		1,984		17,439		
September	8,805		1,908		16,796		
October	8,819		1,962		17,299		
November	8,817		1,894		16,699		
December	8,816		1,987		17,517		
Annual	8,799		23,646		208,062		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Estimated Milk Cows and Production by Month – United States: 2019-2020

[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		
	2019	2020	2019	2020	2019	2020	Change from 2019
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January	9,354	9,348	1,990	2,010	18,612	18,785	0.9
February	9,352		1,814		16,966		
March	9,333		2,019		18,845		
April	9,332		1,975		18,433		
May	9,333		2,042		19,058		
June	9,327		1,954		18,225		
July	9,315		1,973		18,375		
August	9,318		1,960		18,267		
September	9,333		1,885		17,595		
October	9,347		1,940		18,135		
November	9,345		1,873		17,506		
December	9,343		1,966		18,365		
Annual	9,336		23,391		218,382		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Cows and Production – 24 Selected States: January 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	204	193	2,095	2,155	427	416	-2.6
California	1,728	1,724	2,030	2,050	3,508	3,534	0.7
Colorado	180	189	2,210	2,200	398	416	4.5
Florida	116	116	1,810	1,850	210	215	2.4
Georgia	82	82	1,940	1,965	159	161	1.3
Idaho	617	640	2,080	2,080	1,283	1,331	3.7
Illinois	85	82	1,825	1,870	155	153	-1.3
Indiana	181	176	1,950	1,970	353	347	-1.7
Iowa	220	215	2,085	2,100	459	452	-1.5
Kansas	162	168	1,975	2,010	320	338	5.6
Michigan	424	427	2,260	2,280	958	974	1.7
Minnesota	450	445	1,885	1,905	848	848	-
New Mexico	324	333	2,130	2,135	690	711	3.0
New York	627	625	2,015	2,065	1,263	1,291	2.2
Ohio	253	253	1,805	1,855	457	469	2.6
Oregon	126	127	1,760	1,735	222	220	-0.9
Pennsylvania	500	480	1,745	1,805	873	866	-0.8
South Dakota	124	128	1,925	1,925	239	246	2.9
Texas	548	580	2,065	2,105	1,132	1,221	7.9
Utah	100	96	1,935	1,905	194	183	-5.7
Vermont	126	124	1,825	1,825	230	226	-1.7
Virginia	78	76	1,690	1,765	132	134	1.5
Washington	280	282	2,045	2,045	573	577	0.7
Wisconsin	1,270	1,260	2,060	2,055	2,616	2,589	-1.0
24-State Total	8,805	8,821	2,010	2,031	17,699	17,918	1.2

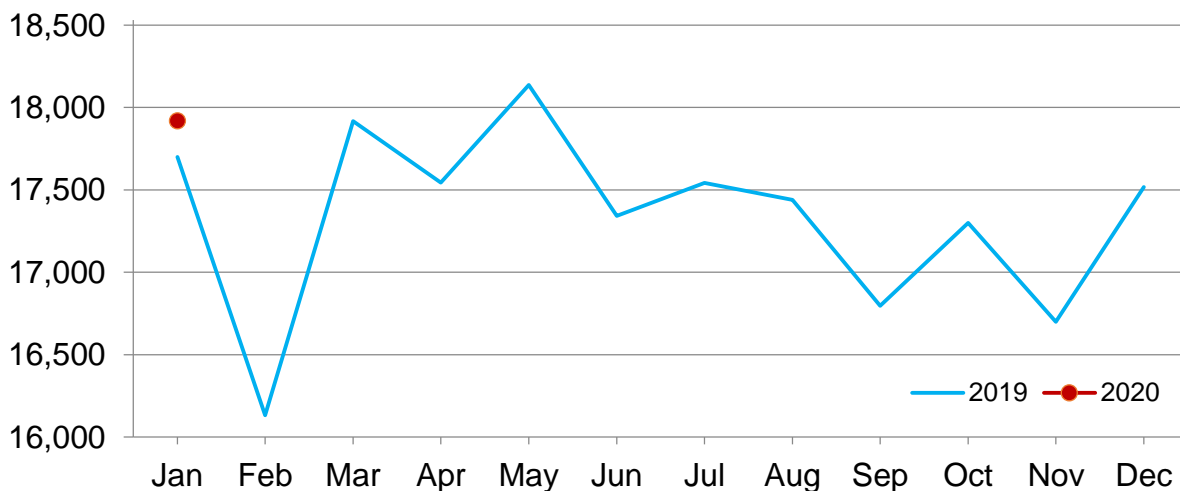
- Represents zero.

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Monthly Milk Production – 24 Selected States

Million pounds



Milk Production (February 2020)

USDA, National Agricultural Statistics Service

Milk Cows and Production – 24 Selected States: December 2018 and 2019

[May not add due to rounding]

State	Milk cows ¹		Milk per cow ²		Milk production ²		
	2018	2019	2018	2019	2018	2019	Change from 2018
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	205	194	2,065	2,105	423	408	-3.5
California	1,730	1,725	1,975	1,975	3,417	3,407	-0.3
Colorado	178	189	2,195	2,185	391	413	5.6
Florida	116	116	1,655	1,740	192	202	5.2
Georgia	81	81	1,810	1,875	147	152	3.4
Idaho	614	635	2,060	2,085	1,265	1,324	4.7
Illinois	85	82	1,770	1,810	150	148	-1.3
Indiana	181	176	1,910	1,920	346	338	-2.3
Iowa	220	215	2,045	2,080	450	447	-0.7
Kansas	161	167	1,970	2,010	317	336	6.0
Michigan	422	427	2,205	2,225	931	950	2.0
Minnesota	450	445	1,850	1,870	833	832	-0.1
New Mexico	325	330	2,060	2,070	670	683	1.9
New York	625	626	1,990	2,025	1,244	1,268	1.9
Ohio	253	252	1,780	1,810	450	456	1.3
Oregon	125	127	1,735	1,695	217	215	-0.9
Pennsylvania	505	483	1,690	1,745	853	843	-1.2
South Dakota	122	127	1,910	1,920	233	244	4.7
Texas	544	580	1,985	2,085	1,080	1,209	11.9
Utah	100	97	1,920	1,910	192	185	-3.6
Vermont	126	124	1,795	1,805	226	224	-0.9
Virginia	79	74	1,620	1,700	128	126	-1.6
Washington	280	282	2,025	2,000	567	564	-0.5
Wisconsin	1,271	1,262	2,025	2,015	2,574	2,543	-1.2
24-State Total	8,798	8,816	1,966	1,987	17,296	17,517	1.3

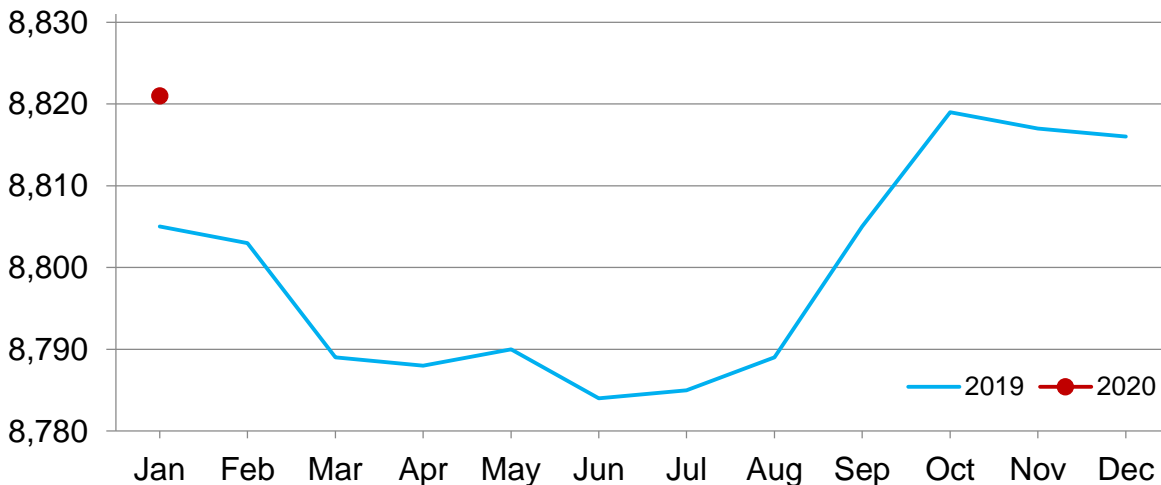
- Represents zero.

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: 2010-2019

[May not add due to rounding]

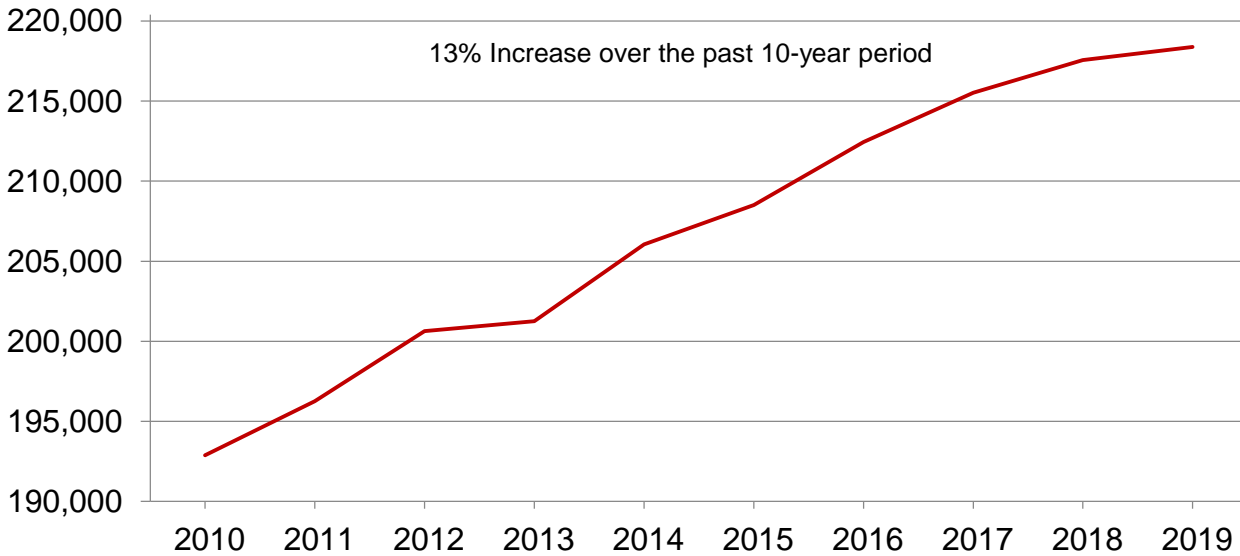
Year	Milk cows ¹ (1,000 head)	Production per cow ²		Milk production ²
		Milk (pounds)	Total (million pounds)	
2010	9,123	21,142	192,877	
2011	9,199	21,334	196,255	
2012	9,237	21,722	200,642	
2013	9,224	21,819	201,260	
2014	9,261	22,249	206,048	
2015	9,320	22,372	208,508	
2016	9,334	22,761	212,451	
2017	9,406	22,914	215,527	
2018	9,398	23,150	217,568	
2019	9,336	23,391	218,382	

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

² Excludes milk sucked by calves.

Milk Production – United States: 2010-2019

Million pounds



Milk Cows and Production – States and United States: 2018 and 2019

[May not add due to rounding]

	Milk cows ¹		Milk per cow ²		Milk production ²		Change from 2018
	2018	2019	2018	2019	2018	2019	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Alabama	5.0	5.0	14,600	12,000	73.0	60.0	-17.8
Alaska	0.3	(D)	9,333	(D)	2.8	(D)	(NA)
Arizona	208.0	197.0	23,909	24,208	4,973.0	4,769.0	-4.1
Arkansas	6.0	5.0	12,333	13,400	74.0	67.0	-9.5
California	1,734.0	1,726.0	23,301	23,502	40,404.0	40,564.0	0.4
Colorado	176.0	186.0	25,892	25,844	4,557.0	4,807.0	5.5
Connecticut	19.0	19.0	22,474	22,526	427.0	428.0	0.2
Delaware	4.8	4.1	19,063	17,976	91.5	73.7	-19.5
Florida	120.0	116.0	19,833	20,224	2,380.0	2,346.0	-1.4
Georgia	83.0	82.0	21,277	21,598	1,766.0	1,771.0	0.3
Hawaii	2.0	(D)	16,950	(D)	33.9	(D)	(NA)
Idaho	609.0	625.0	24,870	25,010	15,146.0	15,631.0	3.2
Illinois	90.0	83.0	20,867	21,060	1,878.0	1,748.0	-6.9
Indiana	183.0	178.0	22,754	22,882	4,164.0	4,073.0	-2.2
Iowa	220.0	218.0	23,955	24,271	5,270.0	5,291.0	0.4
Kansas	159.0	163.0	23,321	23,429	3,708.0	3,819.0	3.0
Kentucky	55.0	50.0	18,345	18,820	1,009.0	941.0	-6.7
Louisiana	11.0	10.0	13,818	13,500	152.0	135.0	-11.2
Maine	30.0	29.0	20,600	21,414	618.0	621.0	0.5
Maryland	45.0	43.0	20,556	19,535	925.0	840.0	-9.2
Massachusetts ..	11.0	10.0	18,364	19,200	202.0	192.0	-5.0
Michigan	423.0	426.0	26,409	26,725	11,171.0	11,385.0	1.9
Minnesota	453.0	448.0	21,784	22,167	9,868.0	9,931.0	0.6
Mississippi	9.0	8.0	14,333	15,750	129.0	126.0	-2.3
Missouri	83.0	78.0	14,386	14,103	1,194.0	1,100.0	-7.9
Montana	12.0	12.0	22,833	21,583	274.0	259.0	-5.5
Nebraska	60.0	58.0	24,000	24,293	1,440.0	1,409.0	-2.2
Nevada	32.0	33.0	22,938	23,091	734.0	762.0	3.8
New Hampshire ..	12.0	11.0	20,750	21,636	249.0	238.0	-4.4
New Jersey	6.0	5.0	18,333	20,000	110.0	100.0	-9.1
New Mexico	330.0	326.0	25,106	25,113	8,285.0	8,187.0	-1.2
New York	623.0	627.0	23,888	24,118	14,882.0	15,122.0	1.6
North Carolina ..	44.0	42.0	21,295	21,476	937.0	902.0	-3.7
North Dakota	15.0	15.0	22,267	21,733	334.0	326.0	-2.4
Ohio	259.0	251.0	21,359	21,614	5,532.0	5,425.0	-1.9
Oklahoma	40.0	41.0	18,125	17,829	725.0	731.0	0.8
Oregon	123.0	124.0	20,577	20,903	2,531.0	2,592.0	2.4
Pennsylvania	519.0	490.0	20,534	20,629	10,657.0	10,108.0	-5.2
Rhode Island	0.7	0.7	16,429	15,143	11.5	10.6	-7.8
South Carolina ..	14.0	12.0	17,286	17,167	242.0	206.0	-14.9
South Dakota	121.0	125.0	22,364	22,480	2,706.0	2,810.0	3.8
Tennessee	37.0	32.0	17,135	17,219	634.0	551.0	-13.1
Texas	537.0	565.0	23,948	24,513	12,860.0	13,850.0	7.7
Utah	100.0	98.0	23,220	23,082	2,322.0	2,262.0	-2.6
Vermont	127.0	126.0	21,126	21,405	2,683.0	2,697.0	0.5
Virginia	83.0	75.0	19,699	19,867	1,635.0	1,490.0	-8.9
Washington	277.0	280.0	24,318	24,225	6,736.0	6,783.0	0.7
West Virginia	7.0	6.0	15,857	15,000	111.0	90.0	-18.9
Wisconsin	1,274.0	1,267.0	24,002	24,152	30,579.0	30,601.0	0.1
Wyoming	6.0	6.0	23,700	24,433	142.2	146.6	3.1
Other States ³	(NA)	1.1	(NA)	4,636	(NA)	5.1	(NA)
United States	9,398.0	9,336.0	23,150	23,391	217,568.0	218,382.0	0.4

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

(NA) Not available.

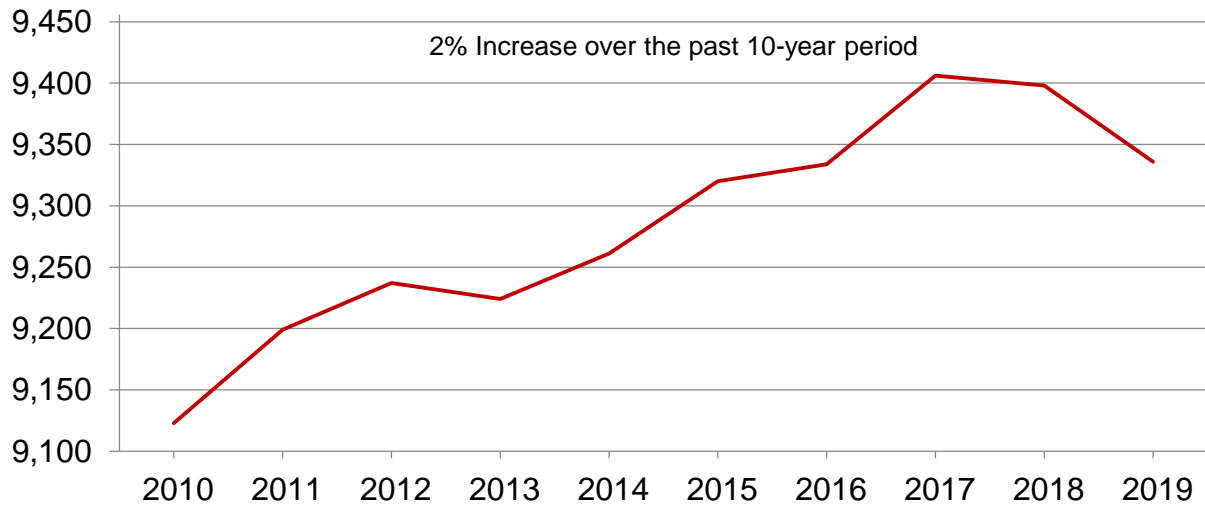
¹ Average number during year, excluding heifers not yet fresh.

² Excludes milk sucked by calves.

³ Other States includes Alaska and Hawaii.

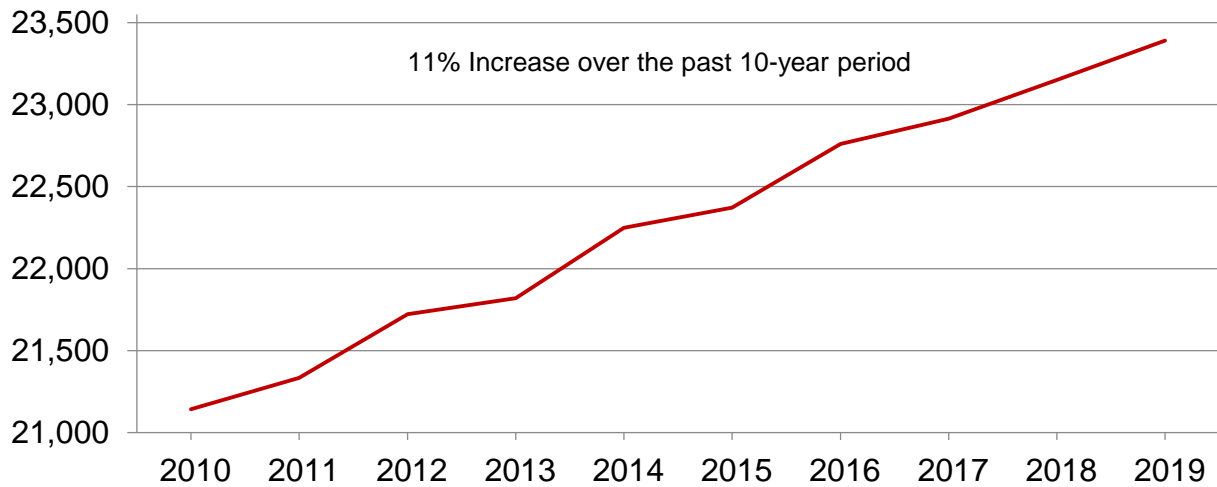
Milk Cows – United States: 2010-2019

Thousand head



Production per Cow – United States: 2010-2019

Pounds



Milk Cows by Month – 24 Selected States, 24 State Total, and United States: 2018

[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	212	212	211	210	208	206
California	1,738	1,738	1,738	1,735	1,735	1,735
Colorado	170	170	173	175	177	177
Florida	124	124	123	122	122	120
Georgia	85	85	85	84	83	82
Idaho	605	607	607	607	610	610
Illinois	93	93	93	93	93	93
Indiana	186	186	185	184	183	183
Iowa	220	220	220	220	220	220
Kansas	156	156	157	157	158	159
Michigan	426	425	425	423	423	423
Minnesota	455	455	454	454	454	453
New Mexico	334	334	334	334	332	332
New York	625	625	625	624	624	623
Ohio	262	262	262	262	262	260
Oregon	124	123	121	121	121	121
Pennsylvania	525	525	524	522	522	521
South Dakota	119	119	120	120	121	122
Texas	530	530	530	533	535	536
Utah	98	99	99	99	101	101
Vermont	128	128	128	127	127	127
Virginia	87	87	86	84	84	84
Washington	276	275	275	276	277	277
Wisconsin	1,275	1,275	1,274	1,274	1,274	1,274
24-State total	8,853	8,853	8,849	8,840	8,846	8,839
United States ¹	9,436	9,435	9,429	9,416	9,420	9,412

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	206	206	206	205	205	205	208
California	1,734	1,734	1,732	1,732	1,731	1,730	1,734
Colorado	177	178	178	178	178	178	176
Florida	119	119	118	118	118	116	120
Georgia	82	81	81	81	81	81	83
Idaho	610	610	610	610	612	614	609
Illinois	92	90	88	86	85	85	90
Indiana	184	184	182	182	181	181	183
Iowa	220	220	220	220	220	220	220
Kansas	159	160	160	160	160	161	159
Michigan	423	423	422	422	422	422	423
Minnesota	452	451	451	451	451	450	453
New Mexico	328	328	327	327	326	325	330
New York	622	622	621	621	623	625	623
Ohio	260	258	255	256	253	253	259
Oregon	121	122	122	124	125	125	123
Pennsylvania	520	519	516	514	509	505	519
South Dakota	121	121	121	121	122	122	121
Texas	538	540	540	540	542	544	537
Utah	101	101	100	100	100	100	100
Vermont	127	127	126	126	126	126	127
Virginia	83	83	81	80	80	79	83
Washington	277	277	277	279	280	280	277
Wisconsin	1,274	1,274	1,273	1,273	1,272	1,271	1,274
24-State Total	8,830	8,828	8,807	8,806	8,802	8,798	8,829
United States ¹	9,392	9,389	9,368	9,365	9,357	9,352	9,398

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: 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	1,728	1,726	1,726	1,726	1,726	1,726
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	124	122	122	122	123
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	8,805	8,803	8,789	8,788	8,790	8,784
United States ¹	9,354	9,352	9,333	9,332	9,333	9,327

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	195	195	196	197	196	194	197
California	1,725	1,725	1,725	1,725	1,725	1,725	1,726
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	635	625
Illinois	83	83	83	81	82	82	83
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	124	124	124	126	127	127	124
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	1,267
24-State total	8,785	8,789	8,805	8,819	8,817	8,816	8,799
United States ¹	9,315	9,318	9,333	9,347	9,345	9,343	9,336

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: 2018

[Excludes milk sucked by calves]

State	January	February	March	April	May	June
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)
Arizona	2,095	1,960	2,205	2,135	2,145	2,005
California	2,005	1,860	2,065	1,990	2,035	1,905
Colorado	2,195	1,985	2,230	2,160	2,215	2,160
Florida	1,775	1,700	1,895	1,780	1,830	1,675
Georgia	1,895	1,760	1,980	1,870	1,885	1,715
Idaho	2,055	1,875	2,085	2,045	2,155	2,095
Illinois	1,800	1,670	1,875	1,800	1,890	1,720
Indiana	1,925	1,760	1,985	1,960	2,010	1,895
Iowa	2,035	1,860	2,070	2,010	2,060	1,975
Kansas	1,960	1,820	2,040	1,990	2,050	1,935
Michigan	2,200	2,025	2,260	2,210	2,330	2,240
Minnesota	1,835	1,670	1,865	1,805	1,895	1,835
New Mexico	2,140	1,975	2,220	2,165	2,190	2,130
New York	1,955	1,805	2,020	1,980	2,100	2,050
Ohio	1,800	1,665	1,875	1,830	1,900	1,800
Oregon	1,695	1,555	1,750	1,740	1,810	1,750
Pennsylvania	1,760	1,630	1,830	1,780	1,830	1,720
South Dakota	1,855	1,700	1,900	1,855	1,940	1,875
Texas	1,985	1,845	2,105	2,060	2,120	2,020
Utah	1,930	1,755	1,955	1,945	2,015	1,975
Vermont	1,780	1,625	1,805	1,755	1,845	1,795
Virginia	1,700	1,570	1,765	1,740	1,760	1,610
Washington	2,020	1,850	2,070	2,030	2,110	2,050
Wisconsin	2,000	1,825	2,045	1,985	2,090	2,030
24-State total	1,973	1,817	2,033	1,977	2,051	1,961
United States ¹	1,953	1,799	2,014	1,957	2,030	1,942

State	July	August	September	October	November	December	Annual average ²
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)
Arizona	1,895	1,835	1,795	1,910	1,895	2,065	23,909
California	1,900	1,905	1,860	1,915	1,880	1,975	23,301
Colorado	2,215	2,210	2,115	2,165	2,090	2,195	25,892
Florida	1,580	1,515	1,380	1,440	1,540	1,655	19,833
Georgia	1,745	1,715	1,595	1,670	1,730	1,810	21,277
Idaho	2,175	2,170	2,045	2,100	1,995	2,060	24,870
Illinois	1,680	1,675	1,570	1,675	1,660	1,770	20,867
Indiana	1,890	1,890	1,780	1,870	1,825	1,910	22,754
Iowa	1,995	1,995	1,920	2,025	1,965	2,045	23,955
Kansas	1,970	1,970	1,870	1,925	1,890	1,970	23,321
Michigan	2,240	2,240	2,120	2,195	2,120	2,205	26,409
Minnesota	1,860	1,860	1,770	1,810	1,750	1,850	21,784
New Mexico	2,140	2,100	2,005	2,015	1,950	2,060	25,106
New York	2,065	2,055	1,950	1,995	1,910	1,990	23,888
Ohio	1,795	1,790	1,680	1,750	1,710	1,780	21,359
Oregon	1,790	1,760	1,690	1,725	1,655	1,735	20,577
Pennsylvania	1,730	1,700	1,610	1,660	1,610	1,690	20,534
South Dakota	1,900	1,915	1,840	1,885	1,820	1,910	22,364
Texas	2,050	2,035	1,925	1,950	1,890	1,985	23,948
Utah	2,000	2,000	1,920	1,935	1,870	1,920	23,220
Vermont	1,770	1,785	1,720	1,770	1,690	1,795	21,126
Virginia	1,610	1,585	1,520	1,595	1,555	1,620	19,699
Washington	2,095	2,075	1,995	2,045	1,935	2,025	24,318
Wisconsin	2,065	2,060	1,965	1,995	1,925	2,025	24,002
24-State total	1,977	1,968	1,881	1,932	1,874	1,966	23,410
United States ¹	1,952	1,943	1,857	1,908	1,852	1,943	23,150

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: 2019

[Excludes milk sucked by calves]

State	January (pounds)	February (pounds)	March (pounds)	April (pounds)	May (pounds)	June (pounds)
Arizona	2,095	1,960	2,195	2,135	2,125	1,960
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	2,110	2,040
Ohio	1,805	1,660	1,855	1,830	1,910	1,835
Oregon	1,760	1,595	1,780	1,760	1,835	1,755
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	2,063	1,974
United States ¹	1,990	1,814	2,019	1,975	2,042	1,954

State	July (pounds)	August (pounds)	September (pounds)	October (pounds)	November (pounds)	December (pounds)	Annual average ² (pounds)
Arizona	1,940	1,860	1,825	1,985	1,990	2,105	24,208
California	1,965	1,925	1,860	1,940	1,895	1,975	23,502
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	2,085	25,010
Illinois	1,685	1,670	1,600	1,690	1,700	1,810	21,060
Indiana	1,880	1,900	1,835	1,920	1,825	1,920	22,882
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	1,870	22,167
New Mexico	2,130	2,085	2,030	2,040	1,970	2,070	25,113
New York	2,050	2,050	1,970	2,015	1,940	2,025	24,118
Ohio	1,820	1,830	1,735	1,790	1,730	1,810	21,614
Oregon	1,805	1,780	1,700	1,745	1,645	1,695	20,903
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	1,910	23,082
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	2,015	24,152
24-State total	1,997	1,984	1,908	1,962	1,894	1,987	23,646
United States ¹	1,973	1,960	1,885	1,940	1,873	1,966	23,391

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: 2018

[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	444	416	465	448	446	413
California	3,485	3,233	3,589	3,453	3,531	3,305
Colorado	373	337	386	378	392	382
Florida	220	211	233	217	223	201
Georgia	161	150	168	157	156	141
Idaho	1,243	1,138	1,266	1,241	1,315	1,278
Illinois	167	155	174	167	176	160
Indiana	358	327	367	361	368	347
Iowa	448	409	455	442	453	435
Kansas	306	284	320	312	324	308
Michigan	937	861	961	935	986	948
Minnesota	835	760	847	819	860	831
New Mexico	715	660	741	723	727	707
New York	1,222	1,128	1,263	1,236	1,310	1,277
Ohio	472	436	491	479	498	468
Oregon	210	191	212	211	219	212
Pennsylvania	924	856	959	929	955	896
South Dakota	221	202	228	223	235	229
Texas	1,052	978	1,116	1,098	1,134	1,083
Utah	189	174	194	193	204	199
Vermont	228	208	231	223	234	228
Virginia	148	137	152	146	148	135
Washington	558	509	569	560	584	568
Wisconsin	2,550	2,327	2,605	2,529	2,663	2,586
24-State total	17,466	16,087	17,992	17,480	18,141	17,337
United States ¹	18,431	16,976	18,988	18,425	19,122	18,280

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	390	378	370	392	388	423	4,973
California	3,295	3,303	3,222	3,317	3,254	3,417	40,404
Colorado	392	393	376	385	372	391	4,557
Florida	188	180	163	170	182	192	2,380
Georgia	143	139	129	135	140	147	1,766
Idaho	1,327	1,324	1,247	1,281	1,221	1,265	15,146
Illinois	155	151	138	144	141	150	1,878
Indiana	348	348	324	340	330	346	4,164
Iowa	439	439	422	446	432	450	5,270
Kansas	313	315	299	308	302	317	3,708
Michigan	948	948	895	926	895	931	11,171
Minnesota	841	839	798	816	789	833	9,868
New Mexico	702	689	656	659	636	670	8,285
New York	1,284	1,278	1,211	1,239	1,190	1,244	14,882
Ohio	467	462	428	448	433	450	5,532
Oregon	217	215	206	214	207	217	2,531
Pennsylvania	900	882	831	853	819	853	10,657
South Dakota	230	232	223	228	222	233	2,706
Texas	1,103	1,099	1,040	1,053	1,024	1,080	12,860
Utah	202	202	192	194	187	192	2,322
Vermont	225	227	217	223	213	226	2,683
Virginia	134	132	123	128	124	128	1,635
Washington	580	575	553	571	542	567	6,736
Wisconsin	2,631	2,624	2,501	2,540	2,449	2,574	30,579
24-State total	17,454	17,374	16,564	17,010	16,492	17,296	206,693
United States ¹	18,331	18,247	17,396	17,872	17,330	18,170	217,568

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

² Total milk production for 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	380
California	3,508	3,210	3,573	3,495	3,556	3,279
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	1,323	1,279
Ohio	457	420	466	458	474	457
Oregon	222	198	217	215	224	216
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	17,699	16,132	17,916	17,544	18,137	17,342
United States ¹	18,612	16,966	18,845	18,433	19,058	18,225

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	408	4,769
California	3,390	3,321	3,209	3,347	3,269	3,407	40,564
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	1,324	15,631
Illinois	140	139	133	137	139	148	1,748
Indiana	331	333	321	338	321	338	4,073
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	832	9,931
New Mexico	694	680	668	673	650	683	8,187
New York	1,285	1,285	1,235	1,261	1,214	1,268	15,122
Ohio	455	458	437	451	436	456	5,425
Oregon	224	221	211	220	209	215	2,592
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	185	2,262
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	2,543	30,601
24-State total	17,542	17,439	16,796	17,299	16,699	17,517	208,062
United States ¹	18,375	18,267	17,595	18,135	17,506	18,365	218,382

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

² Total milk production for year.

Milk Cows and Production by Quarter – States and United States: 2018

[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	5.5	5.5	5.5	5.0	21.0	21.0	15.0	16.0
Alaska	0.3	0.3	0.3	0.2	0.7	0.7	0.8	0.6
Arizona	212.0	208.0	206.0	205.0	1,325.0	1,307.0	1,138.0	1,203.0
Arkansas	6.0	6.0	5.5	5.0	21.0	21.0	16.0	16.0
California	1,738.0	1,735.0	1,733.0	1,731.0	10,307.0	10,289.0	9,820.0	9,988.0
Colorado	171.0	176.0	178.0	178.0	1,096.0	1,152.0	1,161.0	1,148.0
Connecticut	19.0	19.5	19.5	19.5	108.0	111.0	104.0	104.0
Delaware	5.0	4.9	4.9	4.5	25.2	25.1	21.1	20.1
Florida	124.0	121.0	119.0	117.0	664.0	641.0	531.0	544.0
Georgia	85.0	83.0	81.0	81.0	479.0	454.0	411.0	422.0
Hawaii	2.1	2.1	2.0	1.7	10.2	10.6	7.8	5.3
Idaho	606.0	609.0	610.0	612.0	3,647.0	3,834.0	3,898.0	3,767.0
Illinois	93.0	93.0	90.0	85.0	496.0	503.0	444.0	435.0
Indiana	186.0	183.0	183.0	181.0	1,052.0	1,076.0	1,020.0	1,016.0
Iowa	220.0	220.0	220.0	220.0	1,312.0	1,330.0	1,300.0	1,328.0
Kansas	156.0	158.0	160.0	160.0	910.0	944.0	927.0	927.0
Kentucky	57.0	56.0	53.0	53.0	277.0	272.0	227.0	233.0
Louisiana	12.0	11.5	11.0	11.0	46.0	43.0	31.0	32.0
Maine	30.0	30.0	30.0	29.0	151.0	160.0	156.0	151.0
Maryland	46.0	46.0	45.0	44.0	246.0	245.0	219.0	215.0
Massachusetts	11.5	11.5	11.0	10.5	50.0	53.0	51.0	48.0
Michigan	425.0	423.0	423.0	422.0	2,759.0	2,869.0	2,791.0	2,752.0
Minnesota	455.0	454.0	451.0	451.0	2,442.0	2,510.0	2,478.0	2,438.0
Mississippi	9.0	9.0	8.5	8.0	37.0	36.0	28.0	28.0
Missouri	84.0	83.0	82.0	81.0	313.0	335.0	276.0	270.0
Montana	12.5	12.5	12.0	12.0	70.0	70.0	69.0	65.0
Nebraska	60.0	60.0	59.0	59.0	366.0	367.0	353.0	354.0
Nevada	32.0	32.0	32.0	33.0	180.0	186.0	184.0	184.0
New Hampshire	12.5	12.5	12.0	12.0	63.0	65.0	61.0	60.0
New Jersey	6.0	6.0	5.5	5.5	30.0	29.0	26.0	25.0
New Mexico	334.0	333.0	328.0	326.0	2,116.0	2,157.0	2,047.0	1,965.0
New York	625.0	624.0	622.0	623.0	3,613.0	3,823.0	3,773.0	3,673.0
North Carolina	45.0	44.0	43.0	43.0	249.0	245.0	219.0	224.0
North Dakota	15.5	15.5	15.5	15.0	82.0	85.0	85.0	82.0
Ohio	262.0	261.0	258.0	254.0	1,399.0	1,445.0	1,357.0	1,331.0
Oklahoma	41.0	40.0	40.0	40.0	190.0	185.0	170.0	180.0
Oregon	123.0	121.0	122.0	125.0	613.0	642.0	638.0	638.0
Pennsylvania	525.0	522.0	518.0	509.0	2,739.0	2,780.0	2,613.0	2,525.0
Rhode Island	0.8	0.7	0.7	0.7	2.9	3.0	3.0	2.6
South Carolina	15.0	14.5	13.5	14.0	68.0	66.0	53.0	55.0
South Dakota	119.0	121.0	121.0	122.0	651.0	687.0	685.0	683.0
Tennessee	39.0	38.0	36.0	36.0	178.0	170.0	143.0	143.0
Texas	530.0	535.0	539.0	542.0	3,146.0	3,315.0	3,242.0	3,157.0
Utah	99.0	100.0	101.0	100.0	557.0	596.0	596.0	573.0
Vermont	128.0	127.0	127.0	126.0	667.0	685.0	669.0	662.0
Virginia	87.0	84.0	82.0	80.0	437.0	429.0	389.0	380.0
Washington	275.0	277.0	277.0	280.0	1,636.0	1,712.0	1,708.0	1,680.0
West Virginia	7.0	7.0	7.0	7.0	30.0	29.0	27.0	25.0
Wisconsin	1,275.0	1,274.0	1,274.0	1,272.0	7,482.0	7,778.0	7,756.0	7,563.0
Wyoming	6.0	6.0	6.0	6.0	34.8	35.8	35.8	35.8
United States	9,433.0	9,416.0	9,383.0	9,358.0	54,395.0	55,827.0	53,974.0	53,372.0

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

² Excludes milk sucked by calves.

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	195.0	196.0	1,264.0	1,217.0	1,099.0	1,189.0
Arkansas	5.5	5.5	5.0	5.0	18.0	19.0	15.0	15.0
California	1,727.0	1,726.0	1,725.0	1,725.0	10,291.0	10,330.0	9,920.0	10,023.0
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	634.0	3,737.0	3,937.0	4,041.0	3,916.0
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	997.0
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	223.0
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	47.0	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	2,446.0
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	57.0
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	3,869.0	3,805.0	3,743.0
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	124.0	122.0	124.0	127.0	637.0	655.0	656.0	644.0
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	0.7	0.7	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	554.0
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	7,507.0
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	2.1	0.9	0.9	1.2
United States	9,346.0	9,331.0	9,322.0	9,345.0	54,423.0	55,716.0	54,237.0	54,006.0

(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: 2018 and 2019

	Licensed dairy herds ¹	
	2018 (number)	2019 (number)
Alabama	30	25
Alaska	1	1
Arizona	100	90
Arkansas	50	40
California	1,335	1,255
Colorado	120	120
Connecticut	110	100
Delaware	25	20
Florida	95	90
Georgia	160	140
Hawaii	2	1
Idaho	480	460
Illinois	600	575
Indiana	965	865
Iowa	1,120	1,015
Kansas	280	270
Kentucky	540	480
Louisiana	90	85
Maine	230	220
Maryland	380	350
Massachusetts	130	120
Michigan	1,520	1,330
Minnesota	2,980	2,730
Mississippi	65	60
Missouri	920	800
Montana	60	55
Nebraska	155	140
Nevada	20	20
New Hampshire	100	100
New Jersey	50	45
New Mexico	150	140
New York	4,190	3,880
North Carolina	180	150
North Dakota	80	65
Ohio	2,200	1,940
Oklahoma	150	140
Oregon	220	220
Pennsylvania	6,200	5,730
Rhode Island	10	10
South Carolina	50	40
South Dakota	215	195
Tennessee	250	200
Texas	400	380
Utah	180	160
Vermont	730	680
Virginia	565	505
Washington	410	370
West Virginia	65	50
Wisconsin	8,500	7,720
Wyoming	10	10
United States	37,468	34,187

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 0.2 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 17.9 billion pounds by more than 0.2 percent. Chances are 9 out of 10 that the difference will not exceed 0.3 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	0.2	0.3	24	0	82	15	6
All Milk cows	0.1	0.2	9	0	23	18	3

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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- 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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