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January Milk Production up 1.5 percent

Milk production in the 24 major States during January totaled 18.5 billion pounds, up 1.5 percent from January 2022. December revised production, at 18.1 billion pounds, was up 0.7 percent from December 2021. The December revision represented a decrease of 32 million pounds or 0.2 percent from last month's preliminary production estimate.

Production per cow in the 24 major States averaged 2,069 pounds for January, 18 pounds above January 2022.

The number of milk cows on farms in the 24 major States was 8.93 million head, 51,000 head more than January 2022, and 9,000 head more than December 2022.

2022 Annual Milk Production up 0.1 percent from 2021

The annual production of milk for the United States during 2022 was 226 billion pounds, 0.1 percent above 2021. Revisions to 2021 production increased the annual total 35 million pounds. Revised 2022 production was down 158 million pounds from last month's publication. Annual total milk production has increased 12.5 percent from 2013.

Production per cow in the United States averaged 24,087 pounds for 2022, 138 pounds above 2021. The average annual rate of milk production per cow has increased 10.4 percent from 2013.

The average number of milk cows on farms in the United States during 2022 was 9.40 million head, down 0.5 percent from 2021. The average number of milk cows was revised down 2,000 head for 2022. The average annual number of milk cows has increased 1.9 percent from 2013.

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Milk Cows and Production by Quarter – United States: 2022-2023

[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		
	2022	2023	2022	2023	2022	2023	Change from 2022
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January-March	9,384		6,000		56,305		
April-June	9,411		6,144		57,822		
July-September	9,408		5,999		56,438		
October-December	9,404		5,944		55,897		
Annual	9,402		24,087		226,462		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Cows and Production by Month – 24 Selected States: 2022-2023

[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		
	2022	2023	2022	2023	2022	2023	Change from 2022
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January	8,876	8,927	2,051	2,069	18,205	18,469	1.5
February	8,885		1,885		16,750		
March	8,908		2,113		18,827		
April	8,908		2,053		18,291		
May	8,921		2,115		18,871		
June	8,915		2,027		18,074		
July	8,920		2,060		18,373		
August	8,927		2,040		18,212		
September	8,927		1,957		17,470		
October	8,931		2,016		18,005		
November	8,924		1,951		17,413		
December	8,918		2,029		18,093		
Annual	8,913		24,300		216,584		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Estimated Milk Cows and Production by Month – United States: 2022-2023

[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		
	2022	2023	2022	2023	2022	2023	Change from 2022
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January	9,367	9,405	2,034	2,052	19,050	19,300	1.3
February	9,380		1,870		17,540		
March	9,404		2,096		19,715		
April	9,404		2,036		19,147		
May	9,417		2,098		19,755		
June	9,413		2,010		18,920		
July	9,413		2,038		19,180		
August	9,406		2,022		19,016		
September	9,406		1,939		18,242		
October	9,412		1,998		18,809		
November	9,404		1,934		18,184		
December	9,396		2,012		18,904		
Annual	9,402		24,087		226,462		

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Cows and Production – 24 Selected States: January 2022 and 2023

[May not add due to rounding]

State	Milk cows ¹		Milk per cow ²		Milk production ²		Change from 2022
	2022	2023	2022	2023	2022	2023	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona	194	195	2,115	2,125	410	414	1.0
California	1,720	1,724	2,055	2,050	3,535	3,534	-
Colorado	202	201	2,205	2,205	445	443	-0.4
Florida	103	91	1,800	1,800	185	164	-11.4
Georgia	87	92	2,000	2,010	174	185	6.3
Idaho	652	664	2,095	2,110	1,366	1,401	2.6
Illinois	80	79	1,865	1,850	149	146	-2.0
Indiana	186	188	2,015	2,030	375	382	1.9
Iowa	225	241	2,095	2,100	471	506	7.4
Kansas	169	174	2,050	2,040	346	355	2.6
Michigan	430	432	2,285	2,325	983	1,004	2.1
Minnesota	456	455	1,935	1,960	882	892	1.1
New Mexico	295	282	2,150	2,155	634	608	-4.1
New York	620	630	2,090	2,130	1,296	1,342	3.5
Ohio	248	251	1,865	1,885	463	473	2.2
Oregon	125	123	1,750	1,755	219	216	-1.4
Pennsylvania	468	466	1,810	1,820	847	848	0.1
South Dakota	170	187	1,940	1,925	330	360	9.1
Texas	628	650	2,195	2,230	1,378	1,450	5.2
Utah	94	92	1,935	1,935	182	178	-2.2
Vermont	119	118	1,815	1,845	216	218	0.9
Virginia	71	68	1,760	1,790	125	122	-2.4
Washington	261	254	2,020	2,035	527	517	-1.9
Wisconsin	1,273	1,270	2,095	2,135	2,667	2,711	1.6
24-State Total	8,876	8,927	2,051	2,069	18,205	18,469	1.5

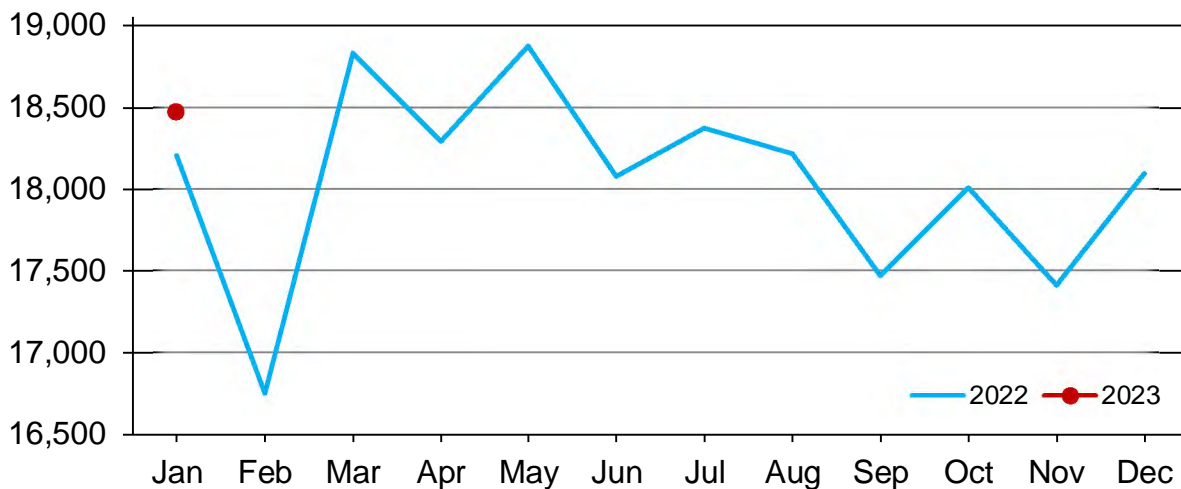
- Represents zero.

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 2021 and 2022

[May not add due to rounding]

	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	194	195	2,090	2,085	405	407	0.5
California	1,720	1,724	2,030	2,020	3,492	3,482	-0.3
Colorado	202	203	2,195	2,180	443	443	-
Florida	105	92	1,725	1,710	181	157	-13.3
Georgia	83	92	1,900	1,900	158	175	10.8
Idaho	652	661	2,065	2,085	1,346	1,378	2.4
Illinois	81	79	1,820	1,800	147	142	-3.4
Indiana	186	187	1,980	2,000	368	374	1.6
Iowa	225	239	2,080	2,065	468	494	5.6
Kansas	169	175	2,025	2,010	342	352	2.9
Michigan	434	432	2,270	2,305	985	996	1.1
Minnesota	460	455	1,905	1,940	876	883	0.8
New Mexico	292	279	2,060	2,060	602	575	-4.5
New York	620	630	2,075	2,090	1,287	1,317	2.3
Ohio	248	250	1,860	1,865	461	466	1.1
Oregon	125	123	1,715	1,725	214	212	-0.9
Pennsylvania	470	465	1,775	1,780	834	828	-0.7
South Dakota	170	186	1,920	1,910	326	355	8.9
Texas	625	650	2,150	2,135	1,344	1,388	3.3
Utah	95	92	1,935	1,925	184	177	-3.8
Vermont	120	118	1,785	1,815	214	214	-
Virginia	71	67	1,735	1,710	123	115	-6.5
Washington	261	254	1,990	1,975	519	502	-3.3
Wisconsin	1,275	1,270	2,075	2,095	2,646	2,661	0.6
24-State Total	8,883	8,918	2,022	2,029	17,965	18,093	0.7

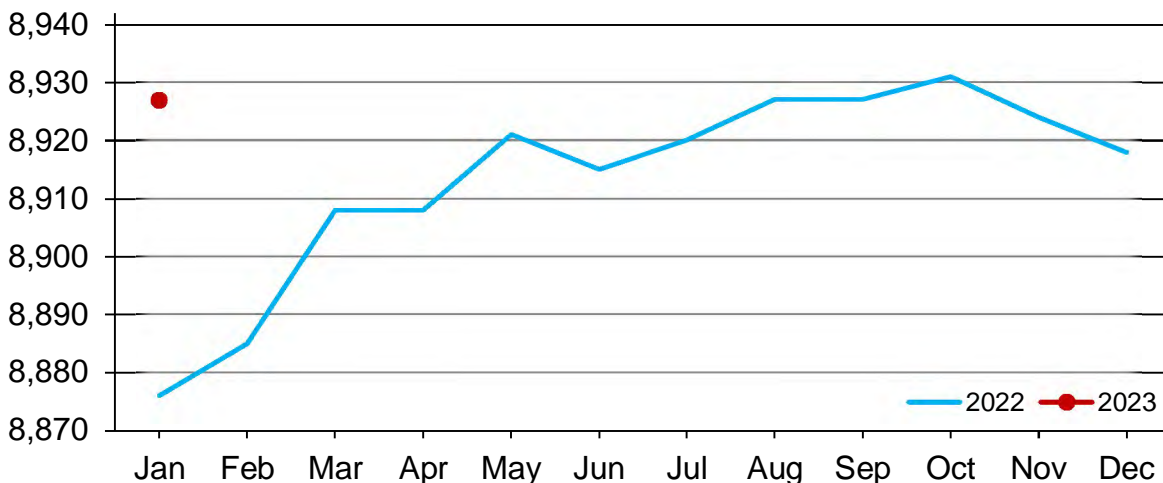
- Represents zero.

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: 2013-2022

[May not add due to rounding]

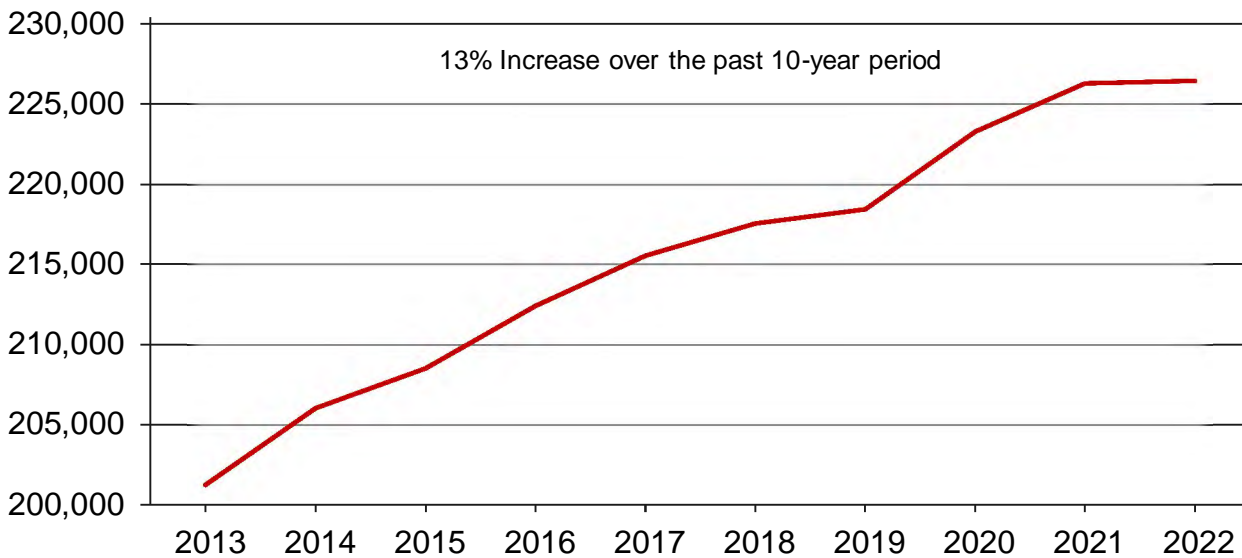
Year	Milk cows ¹ (1,000 head)	Production per cow ²		Milk production ²
		Milk (pounds)	Total (million pounds)	
2013	9,224	21,819	201,260	
2014	9,261	22,249	206,048	
2015	9,320	22,372	208,508	
2016	9,334	22,761	212,451	
2017	9,406	22,914	215,527	
2018	9,398	23,150	217,568	
2019	9,337	23,395	218,441	
2020	9,392	23,777	223,309	
2021	9,449	23,949	226,293	
2022	9,402	24,087	226,462	

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

² Excludes milk sucked by calves.

Milk Production – United States: 2013-2022

Million pounds



Milk Cows and Production – States and United States: 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)
Alabama	3.0	3.0	13,000	10,667	39.0	32.0	-17.9
Alaska	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
Arizona	198.0	197.0	24,333	24,223	4,818.0	4,772.0	-1.0
Arkansas	5.0	4.0	12,000	11,250	60.0	45.0	-25.0
California	1,720.0	1,722.0	24,338	24,267	41,861.0	41,787.0	-0.2
Colorado	203.0	205.0	25,985	25,922	5,275.0	5,314.0	0.7
Connecticut	19.0	18.0	22,895	23,889	435.0	430.0	-1.1
Delaware	3.0	2.7	17,333	17,815	52.0	48.1	-7.5
Florida	108.0	97.0	20,093	19,928	2,170.0	1,933.0	-10.9
Georgia	82.0	92.0	21,927	22,043	1,798.0	2,028.0	12.8
Hawaii	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
Idaho	652.0	656.0	25,172	25,348	16,412.0	16,628.0	1.3
Illinois	82.0	80.0	21,585	21,425	1,770.0	1,714.0	-3.2
Indiana	192.0	186.0	23,641	23,726	4,539.0	4,413.0	-2.8
Iowa	226.0	234.0	24,504	24,658	5,538.0	5,770.0	4.2
Kansas	172.0	173.0	23,831	23,948	4,099.0	4,143.0	1.1
Kentucky	46.0	45.0	19,739	20,578	908.0	926.0	2.0
Louisiana	9.0	9.0	14,000	12,444	126.0	112.0	-11.1
Maine	27.0	26.0	21,185	21,308	572.0	554.0	-3.1
Maryland	42.0	41.0	20,857	20,537	876.0	842.0	-3.9
Massachusetts	10.0	9.0	19,500	20,889	195.0	188.0	-3.6
Michigan	441.0	428.0	27,102	27,430	11,952.0	11,740.0	-1.8
Minnesota	461.0	453.0	22,859	23,128	10,538.0	10,477.0	-0.6
Mississippi	7.0	7.0	15,143	12,857	106.0	90.0	-15.1
Missouri	71.0	67.0	14,225	14,045	1,010.0	941.0	-6.8
Montana	11.0	10.0	22,091	22,300	243.0	223.0	-8.2
Nebraska	58.0	57.0	24,534	24,842	1,423.0	1,416.0	-0.5
Nevada	33.0	32.0	25,121	24,813	829.0	794.0	-4.2
New Hampshire	11.0	10.0	20,636	21,900	227.0	219.0	-3.5
New Jersey	4.0	4.0	22,500	21,750	90.0	87.0	-3.3
New Mexico	318.0	288.0	24,541	24,819	7,804.0	7,148.0	-8.4
New York	627.0	624.0	24,785	25,096	15,540.0	15,660.0	0.8
North Carolina	40.0	39.0	22,925	23,385	917.0	912.0	-0.5
North Dakota	15.0	14.0	22,333	22,786	335.0	319.0	-4.8
Ohio	257.0	250.0	21,946	22,076	5,640.0	5,519.0	-2.1
Oklahoma	39.0	39.0	18,077	18,333	705.0	715.0	1.4
Oregon	125.0	126.0	20,976	20,921	2,622.0	2,636.0	0.5
Pennsylvania	474.0	468.0	21,338	21,259	10,114.0	9,949.0	-1.6
Rhode Island	0.5	0.5	20,200	20,000	10.1	10.0	-1.0
South Carolina	9.0	9.0	17,889	17,889	161.0	161.0	-
South Dakota	156.0	180.0	23,090	23,117	3,602.0	4,161.0	15.5
Tennessee	28.0	27.0	18,143	18,296	508.0	494.0	-2.8
Texas	622.0	646.0	25,079	25,579	15,599.0	16,524.0	5.9
Utah	96.0	93.0	23,167	23,323	2,224.0	2,169.0	-2.5
Vermont	120.0	118.0	21,392	21,644	2,567.0	2,554.0	-0.5
Virginia	73.0	70.0	20,151	20,343	1,471.0	1,424.0	-3.2
Washington	271.0	259.0	24,000	24,089	6,504.0	6,239.0	-4.1
West Virginia	5.0	5.0	15,000	15,000	75.0	75.0	-
Wisconsin	1,274.0	1,272.0	24,889	25,064	31,708.0	31,882.0	0.5
Wyoming	8.5	9.3	25,918	25,763	220.3	239.6	8.8
Other States ³	0.9	0.9	6,111	5,556	5.5	5.0	-9.1
United States	9,449.0	9,402.0	23,949	24,087	226,293.0	226,462.0	0.1

- Represents zero.

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

(NA) Not available.

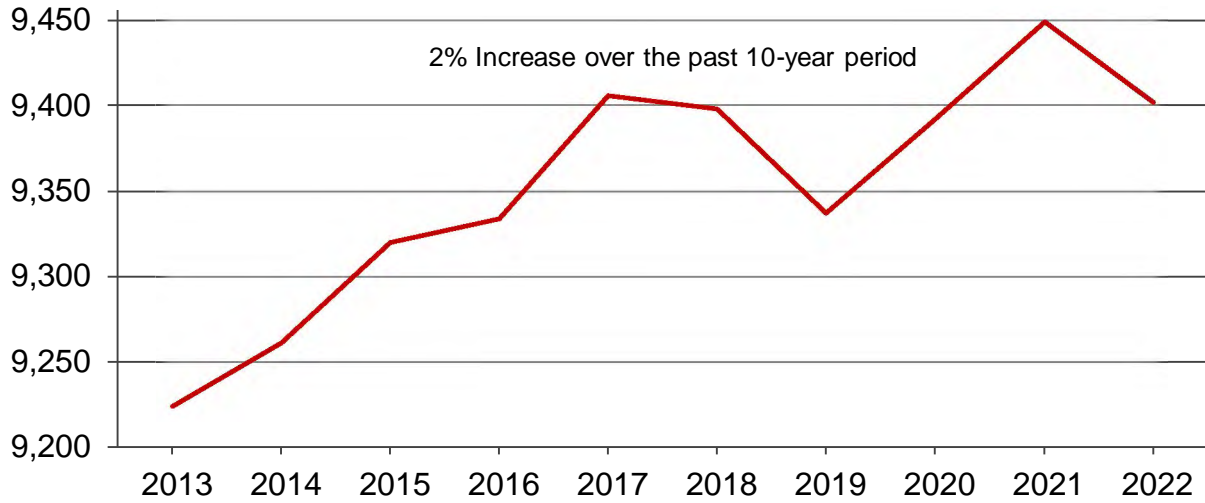
¹ Average number during year, excluding heifers not yet fresh.

² Excludes milk sucked by calves.

³ Other States includes Alaska and Hawaii.

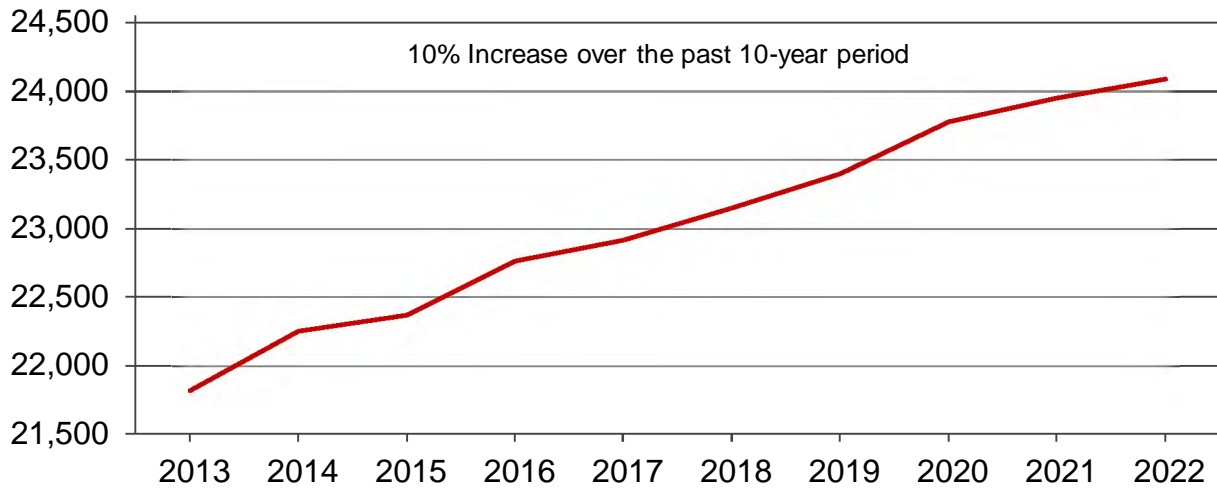
Milk Cows – United States: 2013-2022

Thousand head



Production per Cow – United States: 2013-2022

Pounds



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	204	204	205	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	617	618	620	622	623
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	8,939	8,954	8,971	8,987	8,996	8,990
United States ¹	9,452	9,467	9,483	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	1,720	1,720	1,720	1,720
Colorado	203	201	200	200	202	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	169	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	624	625	625	625	625	625	622
Utah	97	95	94	94	94	95	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	8,982	8,940	8,910	8,893	8,890	8,883	8,945
United States ¹	9,483	9,438	9,405	9,388	9,384	9,376	9,449

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: 2022

[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	194	196	199	199	199	198
California	1,720	1,720	1,721	1,721	1,722	1,722
Colorado	202	202	203	204	206	207
Florida	103	99	98	98	99	96
Georgia	87	89	90	91	92	92
Idaho	652	652	653	653	653	655
Illinois	80	80	80	80	80	80
Indiana	186	187	187	187	187	185
Iowa	225	226	229	231	234	234
Kansas	169	170	171	171	173	174
Michigan	430	428	427	427	427	427
Minnesota	456	453	453	453	452	450
New Mexico	295	292	295	292	292	289
New York	620	620	620	620	623	623
Ohio	248	248	250	251	251	249
Oregon	125	127	128	128	127	126
Pennsylvania	468	468	467	467	467	467
South Dakota	170	175	177	177	178	180
Texas	628	633	640	640	644	648
Utah	94	94	94	94	94	94
Vermont	119	119	118	118	118	117
Virginia	71	71	70	70	70	70
Washington	261	263	265	263	260	260
Wisconsin	1,273	1,273	1,273	1,273	1,273	1,272
24-State total	8,876	8,885	8,908	8,908	8,921	8,915
United States ¹	9,367	9,380	9,404	9,404	9,417	9,413

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	197	196	195	195	195	195	197
California	1,722	1,723	1,723	1,724	1,724	1,724	1,722
Colorado	206	206	206	205	203	203	205
Florida	96	95	93	94	92	92	97
Georgia	93	93	92	92	92	92	92
Idaho	657	657	660	662	661	661	656
Illinois	80	80	80	79	79	79	80
Indiana	185	186	186	186	186	187	186
Iowa	236	238	238	239	239	239	234
Kansas	174	174	175	175	175	175	173
Michigan	427	427	428	428	431	432	428
Minnesota	453	453	453	453	454	455	453
New Mexico	287	287	284	284	282	279	288
New York	623	624	625	627	628	630	624
Ohio	249	250	250	250	250	250	250
Oregon	126	124	125	124	123	123	126
Pennsylvania	467	468	468	468	467	465	468
South Dakota	182	185	185	185	185	186	180
Texas	650	655	655	655	653	650	646
Utah	95	93	92	92	92	92	93
Vermont	117	117	117	117	118	118	118
Virginia	69	69	69	69	69	67	70
Washington	257	255	257	257	255	254	259
Wisconsin	1,272	1,272	1,271	1,271	1,271	1,270	1,272
24-State total	8,920	8,927	8,927	8,931	8,924	8,918	8,913
United States ¹	9,413	9,406	9,406	9,412	9,404	9,396	9,402

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: 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	2,205	1,990	2,220	2,170	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	1,860	1,715	1,930	1,880	1,900	1,800
Indiana	2,020	1,820	2,065	2,005	2,050	2,010
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	1,865	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	1,955	2,180	2,155	2,175	2,055
Utah	1,955	1,770	1,970	1,945	2,030	1,975
Vermont	1,835	1,660	1,870	1,825	1,870	1,815
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	1,925	2,140	2,075	2,145	2,070
24-State total	2,067	1,885	2,105	2,055	2,106	2,011
United States ¹	2,049	1,869	2,088	2,037	2,089	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	2,000	1,950	2,030	24,338
Colorado	2,225	2,215	2,125	2,180	2,105	2,195	25,985
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	1,725	1,720	1,820	21,585
Indiana	1,970	1,940	1,900	1,985	1,890	1,980	23,641
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	2,025	23,831
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	1,905	22,859
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	21,946
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	1,920	23,090
Texas	2,090	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	23,167
Vermont	1,825	1,780	1,725	1,760	1,700	1,785	21,392
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	24,889
24-State total	2,034	2,003	1,935	2,002	1,939	2,022	24,166
United States ¹	2,015	1,984	1,916	1,983	1,920	2,004	23,949

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: 2022

[Excludes milk sucked by calves]

State	January (pounds)	February (pounds)	March (pounds)	April (pounds)	May (pounds)	June (pounds)
Arizona	2,115	2,010	2,270	2,175	2,175	2,010
California	2,055	1,925	2,160	2,100	2,130	2,015
Colorado	2,205	1,990	2,230	2,160	2,235	2,155
Florida	1,800	1,675	1,870	1,785	1,815	1,690
Georgia	2,000	1,820	2,030	1,930	1,920	1,805
Idaho	2,095	1,905	2,140	2,110	2,200	2,145
Illinois	1,865	1,720	1,940	1,880	1,915	1,790
Indiana	2,015	1,830	2,065	2,000	2,060	2,000
Iowa	2,095	1,910	2,125	2,065	2,125	2,050
Kansas	2,050	1,850	2,060	2,005	2,080	1,970
Michigan	2,285	2,100	2,355	2,290	2,380	2,280
Minnesota	1,935	1,775	1,975	1,900	1,980	1,935
New Mexico	2,150	1,955	2,215	2,125	2,165	2,050
New York	2,090	1,915	2,150	2,105	2,190	2,105
Ohio	1,865	1,720	1,920	1,840	1,920	1,840
Oregon	1,750	1,620	1,810	1,765	1,835	1,770
Pennsylvania	1,810	1,670	1,870	1,830	1,890	1,785
South Dakota	1,940	1,750	1,945	1,900	1,985	1,930
Texas	2,195	1,985	2,245	2,180	2,225	2,115
Utah	1,935	1,770	1,965	1,945	2,030	1,975
Vermont	1,815	1,660	1,870	1,820	1,880	1,810
Virginia	1,760	1,615	1,830	1,800	1,820	1,660
Washington	2,020	1,865	2,080	2,000	2,075	2,020
Wisconsin	2,095	1,915	2,140	2,075	2,160	2,100
24-State total	2,051	1,885	2,113	2,053	2,115	2,027
United States ¹	2,034	1,870	2,096	2,036	2,098	2,010

State	July (pounds)	August (pounds)	September (pounds)	October (pounds)	November (pounds)	December (pounds)	Annual average ² (pounds)
Arizona	1,905	1,840	1,790	1,935	1,965	2,085	24,223
California	2,045	2,010	1,900	1,975	1,930	2,020	24,267
Colorado	2,220	2,215	2,130	2,170	2,105	2,180	25,922
Florida	1,605	1,545	1,430	1,550	1,575	1,710	19,928
Georgia	1,800	1,750	1,695	1,810	1,760	1,900	22,043
Idaho	2,225	2,205	2,105	2,120	2,000	2,085	25,348
Illinois	1,780	1,730	1,650	1,735	1,710	1,800	21,425
Indiana	1,980	1,950	1,900	1,980	1,920	2,000	23,726
Iowa	2,080	2,070	2,000	2,065	2,000	2,065	24,658
Kansas	2,000	2,000	1,955	2,015	1,950	2,010	23,948
Michigan	2,335	2,325	2,235	2,300	2,220	2,305	27,430
Minnesota	1,990	1,985	1,895	1,940	1,870	1,940	23,128
New Mexico	2,065	2,050	1,970	2,030	1,960	2,060	24,819
New York	2,145	2,130	2,055	2,105	2,035	2,090	25,096
Ohio	1,875	1,860	1,770	1,830	1,790	1,865	22,076
Oregon	1,810	1,775	1,710	1,755	1,670	1,725	20,921
Pennsylvania	1,790	1,755	1,680	1,730	1,700	1,780	21,259
South Dakota	1,985	1,990	1,920	1,955	1,860	1,910	23,117
Texas	2,125	2,115	2,050	2,150	2,065	2,135	25,579
Utah	2,000	1,995	1,905	1,930	1,850	1,925	23,323
Vermont	1,845	1,830	1,770	1,810	1,755	1,815	21,644
Virginia	1,690	1,675	1,615	1,670	1,635	1,710	20,343
Washington	2,070	2,035	2,010	2,025	1,920	1,975	24,089
Wisconsin	2,150	2,145	2,060	2,100	2,030	2,095	25,064
24-State total	2,060	2,040	1,957	2,016	1,951	2,029	24,300
United States ¹	2,038	2,022	1,939	1,998	1,934	2,012	24,087

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: 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	406	455	445	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	156	142	160	156	158	149
Indiana	390	351	401	391	402	396
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	483	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	1,206	1,347	1,336	1,353	1,280
Utah	186	170	189	187	197	192
Vermont	220	199	223	217	223	216
Virginia	130	118	133	129	130	121
Washington	566	514	573	559	579	549
Wisconsin	2,675	2,433	2,718	2,644	2,733	2,639
24-State total	18,476	16,878	18,887	18,469	18,950	18,079
United States ¹	19,368	17,690	19,801	19,354	19,859	18,945

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	3,440	3,354	3,492	41,861
Colorado	452	445	425	436	425	443	5,275
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	140	139	147	1,770
Indiana	388	372	359	369	352	368	4,539
Iowa	471	462	449	461	448	468	5,538
Kansas	345	337	326	336	326	342	4,099
Michigan	1,032	1,012	961	981	942	985	11,952
Minnesota	899	894	862	881	846	876	10,538
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	5,640
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	326	3,602
Texas	1,304	1,272	1,241	1,316	1,269	1,344	15,599
Utah	194	189	179	181	176	184	2,224
Vermont	219	214	207	211	204	214	2,567
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	31,708
24-State total	18,273	17,911	17,239	17,804	17,234	17,965	216,165
United States ¹	19,104	18,723	18,022	18,618	18,021	18,788	226,293

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: 2022

[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	410	394	452	433	433	398
California	3,535	3,311	3,717	3,614	3,668	3,470
Colorado	445	402	453	441	460	446
Florida	185	166	183	175	180	162
Georgia	174	162	183	176	177	166
Idaho	1,366	1,242	1,397	1,378	1,437	1,405
Illinois	149	138	155	150	153	143
Indiana	375	342	386	374	385	370
Iowa	471	432	487	477	497	480
Kansas	346	315	352	343	360	343
Michigan	983	899	1,006	978	1,016	974
Minnesota	882	804	895	861	895	871
New Mexico	634	571	653	621	632	592
New York	1,296	1,187	1,333	1,305	1,364	1,311
Ohio	463	427	480	462	482	458
Oregon	219	206	232	226	233	223
Pennsylvania	847	782	873	855	883	834
South Dakota	330	306	344	336	353	347
Texas	1,378	1,257	1,437	1,395	1,433	1,371
Utah	182	166	185	183	191	186
Vermont	216	198	221	215	222	212
Virginia	125	115	128	126	127	116
Washington	527	490	551	526	540	525
Wisconsin	2,667	2,438	2,724	2,641	2,750	2,671
24-State total	18,205	16,750	18,827	18,291	18,871	18,074
United States ¹	19,050	17,540	19,715	19,147	19,755	18,920

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	375	361	349	377	383	407	4,772
California	3,521	3,463	3,274	3,405	3,327	3,482	41,787
Colorado	457	456	439	445	427	443	5,314
Florida	154	147	133	146	145	157	1,933
Georgia	167	163	156	167	162	175	2,028
Idaho	1,462	1,449	1,389	1,403	1,322	1,378	16,628
Illinois	142	138	132	137	135	142	1,714
Indiana	366	363	353	368	357	374	4,413
Iowa	491	493	476	494	478	494	5,770
Kansas	348	348	342	353	341	352	4,143
Michigan	997	993	957	984	957	996	11,740
Minnesota	901	899	858	879	849	883	10,477
New Mexico	593	588	559	577	553	575	7,148
New York	1,336	1,329	1,284	1,320	1,278	1,317	15,660
Ohio	467	465	443	458	448	466	5,519
Oregon	228	220	214	218	205	212	2,636
Pennsylvania	836	821	786	810	794	828	9,949
South Dakota	361	368	355	362	344	355	4,161
Texas	1,381	1,385	1,343	1,408	1,348	1,388	16,524
Utah	190	186	175	178	170	177	2,169
Vermont	216	214	207	212	207	214	2,554
Virginia	117	116	111	115	113	115	1,424
Washington	532	519	517	520	490	502	6,239
Wisconsin	2,735	2,728	2,618	2,669	2,580	2,661	31,882
24-State total	18,373	18,212	17,470	18,005	17,413	18,093	216,584
United States ¹	19,180	19,016	18,242	18,809	18,184	18,904	226,462

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: 2021

[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	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	1,720.0	10,655.0	10,821.0	10,099.0	10,286.0
Colorado	204.0	205.0	201.0	201.0	1,311.0	1,338.0	1,322.0	1,304.0
Connecticut	19.0	19.0	19.0	18.5	112.0	113.0	105.0	105.0
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	458.0	463.0	423.0	426.0
Indiana	193.0	196.0	193.0	186.0	1,142.0	1,189.0	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	169.0	1,047.0	1,040.0	1,008.0	1,004.0
Kentucky	47.0	46.0	45.0	45.0	239.0	242.0	213.0	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	207.0
Massachusetts	10.0	10.0	9.5	9.5	50.0	51.0	48.0	46.0
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	2,603.0
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	213.0	202.0
New Hampshire	10.5	10.5	10.5	10.5	58.0	59.0	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	1,422.0	1,447.0	1,410.0	1,361.0
Oklahoma	40.0	40.0	38.0	39.0	184.0	188.0	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	45.0	42.0	35.0	39.0
South Dakota	144.0	154.0	160.0	166.0	814.0	889.0	939.0	960.0
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	3,884.0	3,969.0	3,817.0	3,929.0
Utah	96.0	97.0	95.0	94.0	545.0	576.0	562.0	541.0
Vermont	120.0	119.0	120.0	120.0	642.0	656.0	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	7,826.0	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	9,467.0	9,503.0	9,442.0	9,383.0	56,859.0	58,158.0	55,849.0	55,427.0

(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: 2022

[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	2.5	2.5	2.0	10.0	9.0	7.0	6.0
Alaska	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Arizona	196.0	199.0	196.0	195.0	1,256.0	1,264.0	1,085.0	1,167.0
Arkansas	4.5	4.5	3.5	3.5	13.0	13.0	9.0	10.0
California	1,720.0	1,722.0	1,723.0	1,724.0	10,563.0	10,752.0	10,258.0	10,214.0
Colorado	202.0	206.0	206.0	204.0	1,300.0	1,347.0	1,352.0	1,315.0
Connecticut	18.0	18.5	18.5	18.5	108.0	111.0	106.0	105.0
Delaware	2.8	2.8	2.6	2.6	13.0	12.9	11.0	11.2
Florida	100.0	98.0	95.0	93.0	534.0	517.0	434.0	448.0
Georgia	89.0	92.0	93.0	92.0	519.0	519.0	486.0	504.0
Hawaii	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	652.0	654.0	658.0	661.0	4,005.0	4,220.0	4,300.0	4,103.0
Illinois	80.0	80.0	80.0	79.0	442.0	446.0	412.0	414.0
Indiana	187.0	186.0	186.0	186.0	1,103.0	1,129.0	1,082.0	1,099.0
Iowa	227.0	233.0	237.0	239.0	1,390.0	1,454.0	1,460.0	1,466.0
Kansas	170.0	173.0	174.0	175.0	1,013.0	1,046.0	1,038.0	1,046.0
Kentucky	45.0	46.0	45.0	45.0	233.0	251.0	220.0	222.0
Louisiana	9.0	9.0	8.0	8.0	33.0	32.0	22.0	25.0
Maine	26.0	26.0	26.0	25.0	137.0	144.0	139.0	134.0
Maryland	41.0	41.0	40.0	40.0	218.0	216.0	203.0	205.0
Massachusetts	9.5	9.5	9.5	9.0	48.0	49.0	47.0	44.0
Michigan	428.0	427.0	427.0	430.0	2,888.0	2,968.0	2,947.0	2,937.0
Minnesota	454.0	452.0	453.0	454.0	2,581.0	2,627.0	2,658.0	2,611.0
Mississippi	7.0	7.0	6.0	6.0	26.0	26.0	19.0	19.0
Missouri	68.0	68.0	65.0	65.0	238.0	263.0	222.0	218.0
Montana	10.5	10.0	10.0	10.0	57.0	57.0	56.0	53.0
Nebraska	57.0	58.0	57.0	57.0	352.0	359.0	349.0	356.0
Nevada	32.0	32.0	32.0	32.0	202.0	199.0	201.0	192.0
New Hampshire	10.5	10.0	10.0	10.0	56.0	57.0	54.0	52.0
New Jersey	4.3	4.3	4.3	4.1	23.0	23.0	21.0	20.0
New Mexico	294.0	291.0	286.0	282.0	1,858.0	1,845.0	1,740.0	1,705.0
New York	620.0	622.0	624.0	628.0	3,816.0	3,980.0	3,949.0	3,915.0
North Carolina	39.0	39.0	39.0	39.0	238.0	239.0	215.0	220.0
North Dakota	14.5	14.0	14.0	14.0	80.0	81.0	81.0	77.0
Ohio	249.0	250.0	250.0	250.0	1,370.0	1,402.0	1,375.0	1,372.0
Oklahoma	40.0	40.0	38.0	39.0	189.0	186.0	162.0	178.0
Oregon	127.0	127.0	125.0	123.0	657.0	682.0	662.0	635.0
Pennsylvania	468.0	467.0	468.0	467.0	2,502.0	2,572.0	2,443.0	2,432.0
Rhode Island	0.5	0.5	0.5	0.5	2.5	2.6	2.5	2.4
South Carolina	9.0	9.0	9.0	9.0	44.0	44.0	35.0	38.0
South Dakota	174.0	178.0	184.0	185.0	980.0	1,036.0	1,084.0	1,061.0
Tennessee	27.0	27.0	27.0	26.0	126.0	130.0	120.0	118.0
Texas	634.0	644.0	653.0	653.0	4,072.0	4,199.0	4,109.0	4,144.0
Utah	94.0	94.0	93.0	92.0	533.0	560.0	551.0	525.0
Vermont	119.0	118.0	117.0	118.0	635.0	649.0	637.0	633.0
Virginia	71.0	70.0	69.0	68.0	368.0	369.0	344.0	343.0
Washington	263.0	261.0	256.0	255.0	1,568.0	1,591.0	1,568.0	1,512.0
West Virginia	5.0	5.0	5.0	5.0	19.0	20.0	18.0	18.0
Wisconsin	1,273.0	1,273.0	1,272.0	1,271.0	7,829.0	8,062.0	8,081.0	7,910.0
Wyoming	9.0	9.5	9.5	9.0	56.1	60.3	62.2	61.0
Other States ³	1.0	1.0	0.9	0.8	1.3	1.3	1.3	1.1
United States	9,384.0	9,411.0	9,408.0	9,404.0	56,305.0	57,822.0	56,438.0	55,897.0

(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: 2021 and 2022

	Licensed dairy herds ¹	
	2021 (number)	2022 (number)
Alabama	15	10
Alaska	1	1
Arizona	80	80
Arkansas	35	30
California	1,175	1,115
Colorado	110	110
Connecticut	85	85
Delaware	15	15
Florida	75	60
Georgia	110	95
Hawaii	1	1
Idaho	430	410
Illinois	495	480
Indiana	770	735
Iowa	880	800
Kansas	230	210
Kentucky	420	380
Louisiana	70	65
Maine	190	170
Maryland	320	310
Massachusetts	110	110
Michigan	1,140	1,010
Minnesota	2,215	2,035
Mississippi	50	45
Missouri	650	560
Montana	45	45
Nebraska	120	100
Nevada	20	20
New Hampshire	95	95
New Jersey	40	40
New Mexico	120	110
New York	3,430	3,210
North Carolina	140	130
North Dakota	55	40
Ohio	1,620	1,525
Oklahoma	100	85
Oregon	190	170
Pennsylvania	5,200	5,000
Rhode Island	10	10
South Carolina	30	30
South Dakota	165	155
Tennessee	160	140
Texas	340	320
Utah	150	150
Vermont	580	550
Virginia	420	390
Washington	330	310
West Virginia	35	30
Wisconsin	6,770	6,350
Wyoming	5	5
United States	29,842	27,932

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 0.3 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 18.5 billion pounds by more than 0.3 percent. Chances are 9 out of 10 that the difference will not exceed 0.5 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	0.3	0.5	43	3	180	10	14
All Milk cows	0.1	0.2	8	0	29	11	11

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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Sherry Bertramsen – Livestock Slaughter	(202) 690-8632
Ryan Cowen – Cattle, Cattle on Feed	(202) 720-3040
Anthony Fischer – Hogs and Pigs	(202) 720-3106
Mike Miller – Milk Production and Milk Cows	(202) 720-3278
Suzanne Richards – Dairy Products	(202) 720-4448
Suzanne Richards – Sheep and Goats	(202) 720-4448

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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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