



# Milk Production

ISSN: 1949-1557

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Released March 12, 2019, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

## January Milk Production up 1.3 Percent

**Milk production** in the 23 major States during January totaled 17.5 billion pounds, up 1.3 percent from January 2018. December revised production, at 17.1 billion pounds, was up 0.8 percent from December 2017. The December revision represented an increase of 2 million pounds or less than 0.1 percent from last month's preliminary production estimate.

**Production per cow** in the 23 major States averaged 2,011 pounds for January, 38 pounds above January 2018. This is the highest production per cow for the month of January since the 23 State series began in 2003.

**The number of milk cows** on farms in the 23 major States was 8.72 million head, 52,000 head less than January 2018, but 2,000 head more than December 2018.

## 2018 Annual Milk Production up 1.0 Percent from 2017

**The annual production of milk** for the United States during 2018 was 218 billion pounds, 1.0 percent above 2017. Revisions to 2017 production increased the annual total 61 million pounds. Revised 2018 production was up 99 million pounds from last month's publication. Annual total milk production has increased 15.0 percent from 2009.

**Production per cow** in the United States averaged 23,149 pounds for 2018, 235 pounds above 2017. The average annual rate of milk production per cow has increased 12.6 percent from 2009.

**The average number of milk cows on farms** in the United States during 2018 was 9.40 million head, down 0.1 percent from 2017. The average number of milk cows was revised up 14,000 head for 2018. The average annual number of milk cows has increased 2.1 percent from 2009.

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## Milk Cows and Production by Quarter – United States: 2018-2019

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

Quarter	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		
	2018	2019	2018	2019	2018	2019	Change from 2018
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January-March .....	9,435		5,766		54,399		
April-June .....	9,418		5,928		55,831		
July-September .....	9,383		5,752		53,969		
October-December .....	9,359		5,703		53,376		
Annual .....	9,399		23,149		217,575		

<sup>1</sup> Includes dry cows. Excludes heifers not yet fresh.

<sup>2</sup> Excludes milk sucked by calves.

## Milk Cows and Production by Month – 23 Selected States: 2018-2019

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

Month	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		
	2018	2019	2018	2019	2018	2019	Change from 2018
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January .....	8,771	8,719	1,973	2,011	17,308	17,533	1.3
February .....	8,770		1,817		15,936		
March .....	8,764		2,034		17,826		
April .....	8,760		1,977		17,318		
May .....	8,765		2,053		17,995		
June .....	8,758		1,963		17,195		
July .....	8,748		1,979		17,311		
August .....	8,747		1,970		17,233		
September .....	8,727		1,883		16,432		
October .....	8,726		1,933		16,870		
November .....	8,721		1,878		16,374		
December .....	8,717		1,966		17,135		
Annual .....	8,748		23,426		204,933		

<sup>1</sup> Includes dry cows. Excludes heifers not yet fresh.

<sup>2</sup> Excludes milk sucked by calves.

## Estimated Milk Cows and Production by Month – United States: 2018-2019

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

Month	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		
	2018	2019	2018	2019	2018	2019	Change from 2018
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January .....	9,438	9,355	1,953	1,988	18,437	18,600	0.9
February .....	9,436		1,799		16,973		
March .....	9,430		2,014		18,989		
April .....	9,418		1,955		18,412		
May .....	9,422		2,030		19,131		
June .....	9,414		1,943		18,288		
July .....	9,392		1,952		18,329		
August .....	9,389		1,943		18,245		
September .....	9,368		1,857		17,395		
October .....	9,367		1,908		17,873		
November .....	9,358		1,854		17,348		
December .....	9,353		1,941		18,155		
Annual .....	9,399		23,149		217,575		

<sup>1</sup> Includes dry cows. Excludes heifers not yet fresh.

<sup>2</sup> Excludes milk sucked by calves.

## Milk Cows and Production – 23 Selected States: January 2018 and 2019

[May not add due to rounding]

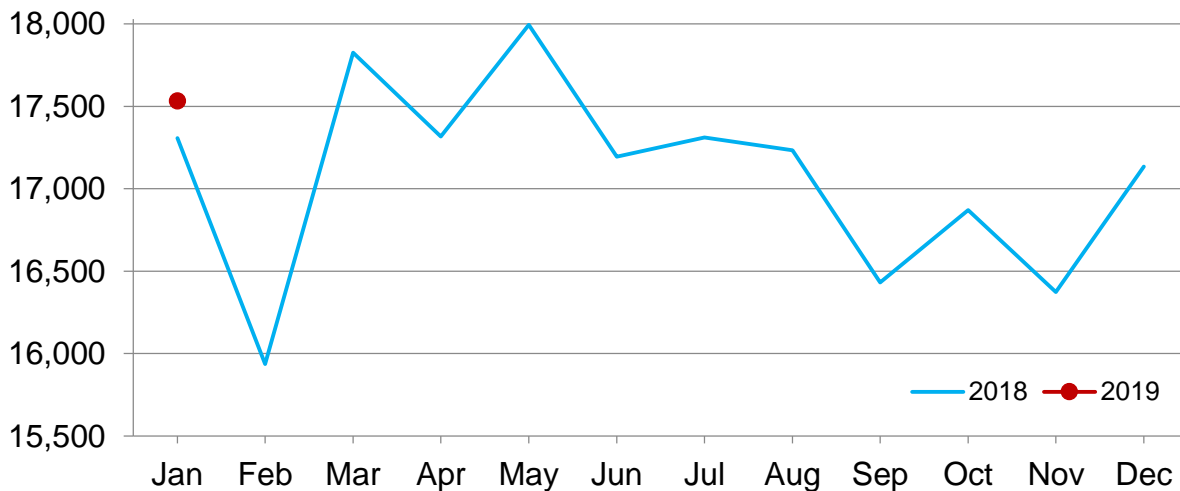
	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		
	2018	2019	2018	2019	2018	2019	Change from 2018
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona .....	212	204	2,095	2,095	444	427	-3.8
California .....	1,738	1,730	2,005	2,030	3,485	3,512	0.8
Colorado .....	170	180	2,195	2,210	373	398	6.7
Florida .....	124	116	1,775	1,810	220	210	-4.5
Idaho .....	605	615	2,055	2,095	1,243	1,288	3.6
Illinois .....	93	85	1,800	1,800	167	153	-8.4
Indiana .....	187	181	1,930	1,935	361	350	-3.0
Iowa .....	220	220	2,035	2,075	448	457	2.0
Kansas .....	156	162	1,960	2,005	306	325	6.2
Michigan .....	428	422	2,190	2,245	937	947	1.1
Minnesota .....	455	450	1,835	1,885	835	848	1.6
New Mexico .....	334	324	2,140	2,130	715	690	-3.5
New York .....	625	627	1,955	2,015	1,222	1,263	3.4
Ohio .....	262	253	1,800	1,795	472	454	-3.8
Oregon .....	124	125	1,695	1,760	210	220	4.8
Pennsylvania .....	525	500	1,760	1,745	924	873	-5.5
South Dakota .....	119	123	1,855	1,910	221	235	6.3
Texas .....	530	548	1,985	2,060	1,052	1,129	7.3
Utah .....	98	100	1,930	1,930	189	193	2.1
Vermont .....	128	126	1,780	1,825	228	230	0.9
Virginia .....	87	78	1,700	1,680	148	131	-11.5
Washington .....	276	280	2,020	2,060	558	577	3.4
Wisconsin .....	1,275	1,270	2,000	2,065	2,550	2,623	2.9
23-State Total .....	8,771	8,719	1,973	2,011	17,308	17,533	1.3

<sup>1</sup> Includes dry cows. Excludes heifers not yet fresh.

<sup>2</sup> Excludes milk sucked by calves.

## Monthly Milk Production – 23 Selected States

Million pounds



## Milk Cows and Production – 23 Selected States: December 2017 and 2018

[May not add due to rounding]

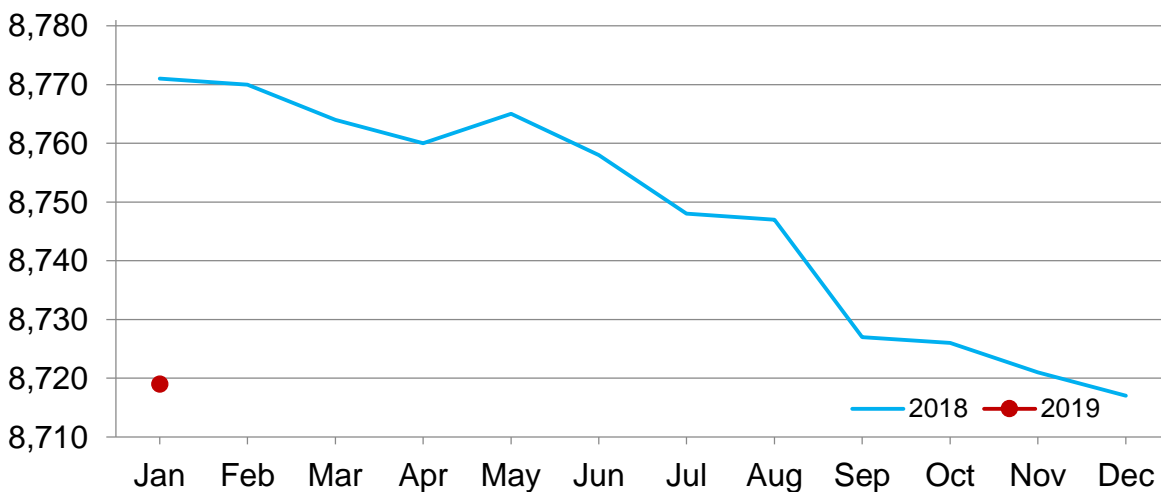
State	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		
	2017	2018	2017	2018	2017	2018	Change from 2017
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona .....	210	205	2,040	2,060	428	422	-1.4
California .....	1,741	1,730	1,935	1,970	3,369	3,408	1.2
Colorado .....	167	178	2,210	2,195	369	391	6.0
Florida .....	124	116	1,675	1,665	208	193	-7.2
Idaho .....	600	614	2,020	2,060	1,212	1,265	4.4
Illinois .....	93	85	1,770	1,770	165	150	-9.1
Indiana .....	187	181	1,900	1,890	355	342	-3.7
Iowa .....	220	220	2,020	2,035	444	448	0.9
Kansas .....	155	161	1,960	1,970	304	317	4.3
Michigan .....	428	422	2,180	2,205	933	931	-0.2
Minnesota .....	456	450	1,815	1,850	828	833	0.6
New Mexico .....	332	325	2,075	2,060	689	670	-2.8
New York .....	625	625	1,955	1,990	1,222	1,244	1.8
Ohio .....	264	253	1,755	1,780	463	450	-2.8
Oregon .....	124	125	1,675	1,735	208	217	4.3
Pennsylvania .....	525	505	1,725	1,695	906	856	-5.5
South Dakota .....	118	122	1,865	1,900	220	232	5.5
Texas .....	527	544	1,955	1,985	1,030	1,080	4.9
Utah .....	97	100	1,935	1,920	188	192	2.1
Vermont .....	128	126	1,775	1,785	227	225	-0.9
Virginia .....	87	79	1,680	1,620	146	128	-12.3
Washington .....	275	280	1,985	2,025	546	567	3.8
Wisconsin .....	1,276	1,271	1,990	2,025	2,539	2,574	1.4
23-State Total .....	8,759	8,717	1,941	1,966	16,999	17,135	0.8

<sup>1</sup> Includes dry cows. Excludes heifers not yet fresh.

<sup>2</sup> Excludes milk sucked by calves.

## Monthly Milk Cows – 23 Selected States

Thousand head



## Milk Cows and Production – United States: 2009-2018

[May not add due to rounding]

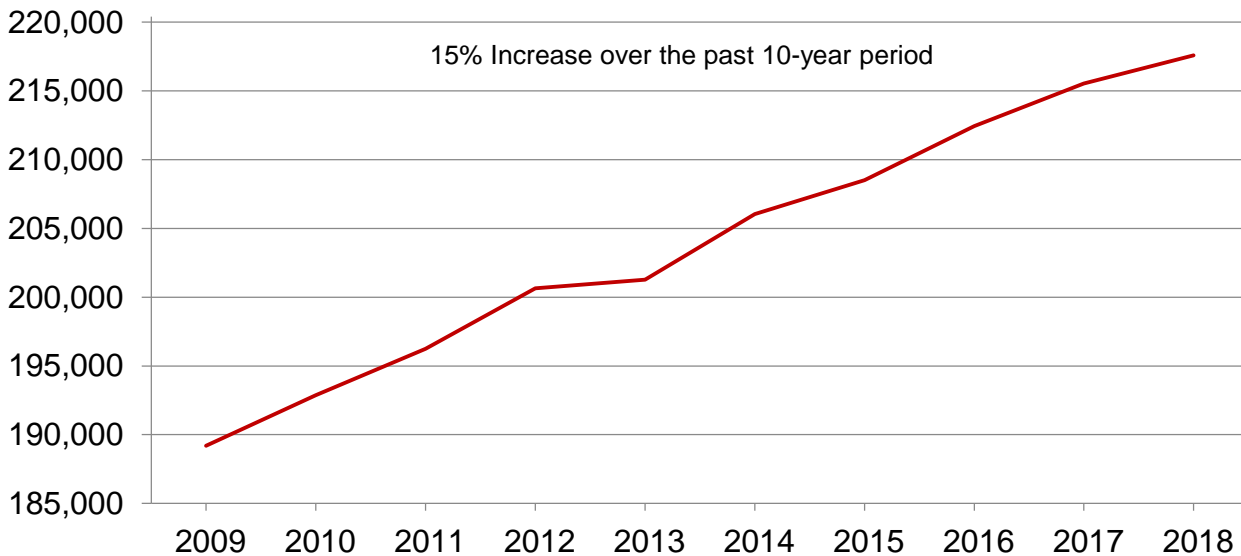
Year	Milk cows <sup>1</sup> (1,000 head)	Production per cow <sup>2</sup>		Milk production <sup>2</sup>
		Milk (pounds)	Total (million pounds)	
2009 .....	9,202	20,561	189,202	
2010 .....	9,123	21,142	192,877	
2011 .....	9,199	21,334	196,255	
2012 .....	9,237	21,722	200,642	
2013 .....	9,224	21,819	201,260	
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 .....	9,399	23,149	217,575	

<sup>1</sup> Average number during year, excluding heifers not yet fresh.

<sup>2</sup> Excludes milk sucked by calves.

## Milk Production – United States: 2009-2018

Million pounds



## Milk Cows and Production – States and United States: 2017 and 2018

[May not add due to rounding]

	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		Change from 2017
	2017	2018	2017	2018	2017	2018	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Alabama .....	6.0	5.0	15,000	14,600	90.0	73.0	-18.9
Alaska .....	0.3	0.3	9,667	9,333	2.9	2.8	-3.4
Arizona .....	208.0	208.0	24,197	23,933	5,033.0	4,978.0	-1.1
Arkansas .....	6.0	6.0	13,333	12,333	80.0	74.0	-7.5
California .....	1,749.0	1,734.0	22,755	23,306	39,798.0	40,413.0	1.5
Colorado .....	162.0	176.0	25,858	25,892	4,189.0	4,557.0	8.8
Connecticut .....	19.0	19.0	22,105	22,474	420.0	427.0	1.7
Delaware .....	5.0	4.8	18,560	19,063	92.8	91.5	-1.4
Florida .....	124.0	120.0	20,129	19,842	2,496.0	2,381.0	-4.6
Georgia .....	84.0	82.0	21,905	21,537	1,840.0	1,766.0	-4.0
Hawaii .....	2.3	2.0	16,913	17,000	38.9	34.0	-12.6
Idaho .....	600.0	609.0	24,388	24,875	14,633.0	15,149.0	3.5
Illinois .....	93.0	90.0	20,742	20,867	1,929.0	1,878.0	-2.6
Indiana .....	187.0	184.0	22,754	22,614	4,255.0	4,161.0	-2.2
Iowa .....	218.0	220.0	23,757	23,945	5,179.0	5,268.0	1.7
Kansas .....	152.0	159.0	23,020	23,321	3,499.0	3,708.0	6.0
Kentucky .....	56.0	55.0	18,607	18,345	1,042.0	1,009.0	-3.2
Louisiana .....	12.0	11.0	13,417	13,818	161.0	152.0	-5.6
Maine .....	30.0	30.0	21,000	20,600	630.0	618.0	-1.9
Maryland .....	48.0	45.0	19,917	20,556	956.0	925.0	-3.2
Massachusetts ..	12.0	11.0	17,583	18,364	211.0	202.0	-4.3
Michigan .....	427.0	424.0	26,302	26,340	11,231.0	11,168.0	-0.6
Minnesota .....	458.0	453.0	21,544	21,784	9,867.0	9,868.0	-
Mississippi .....	9.0	9.0	15,222	14,333	137.0	129.0	-5.8
Missouri .....	85.0	83.0	14,600	14,386	1,241.0	1,194.0	-3.8
Montana .....	13.0	12.0	22,154	22,833	288.0	274.0	-4.9
Nebraska .....	60.0	60.0	24,067	24,000	1,444.0	1,440.0	-0.3
Nevada .....	32.0	32.0	22,156	22,938	709.0	734.0	3.5
New Hampshire ..	13.0	12.0	21,000	20,750	273.0	249.0	-8.8
New Jersey .....	6.0	6.0	19,833	18,333	119.0	110.0	-7.6
New Mexico .....	329.0	330.0	24,960	25,106	8,212.0	8,285.0	0.9
New York .....	624.0	623.0	23,925	23,888	14,929.0	14,882.0	-0.3
North Carolina ..	45.0	44.0	21,156	21,295	952.0	937.0	-1.6
North Dakota .....	16.0	15.0	21,563	22,267	345.0	334.0	-3.2
Ohio .....	264.0	259.0	21,284	21,359	5,619.0	5,532.0	-1.5
Oklahoma .....	40.0	40.0	18,200	18,125	728.0	725.0	-0.4
Oregon .....	124.0	123.0	20,395	20,577	2,529.0	2,531.0	0.1
Pennsylvania .....	525.0	519.0	20,749	20,549	10,893.0	10,665.0	-2.1
Rhode Island .....	0.8	0.7	16,250	16,714	13.0	11.7	-10.0
South Carolina ..	15.0	14.0	16,533	17,286	248.0	242.0	-2.4
South Dakota .....	117.0	121.0	22,376	22,355	2,618.0	2,705.0	3.3
Tennessee .....	40.0	37.0	17,325	17,135	693.0	634.0	-8.5
Texas .....	515.0	537.0	23,406	23,933	12,054.0	12,852.0	6.6
Utah .....	96.0	100.0	23,073	23,220	2,215.0	2,322.0	4.8
Vermont .....	129.0	127.0	21,155	21,102	2,729.0	2,680.0	-1.8
Virginia .....	87.0	83.0	19,954	19,699	1,736.0	1,635.0	-5.8
Washington .....	274.0	277.0	23,836	24,318	6,531.0	6,736.0	3.1
West Virginia .....	8.0	7.0	15,875	15,857	127.0	111.0	-12.6
Wisconsin .....	1,278.0	1,274.0	23,735	24,002	30,333.0	30,579.0	0.8
Wyoming .....	6.0	6.0	23,033	23,700	138.2	142.2	2.9
United States .....	9,406.0	9,399.0	22,914	23,149	215,527.0	217,575.0	1.0

- Represents zero.

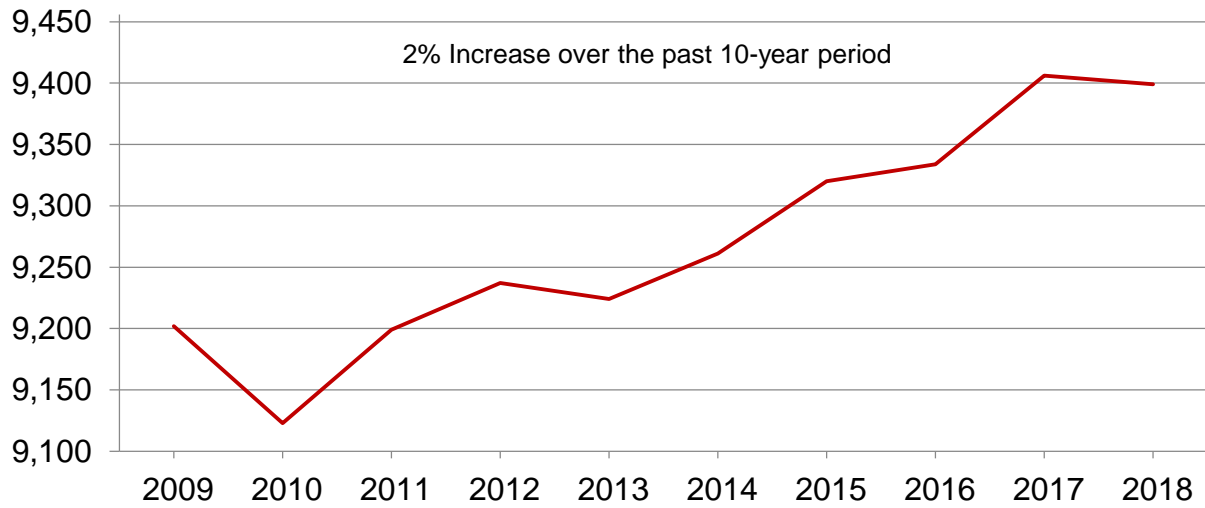
<sup>1</sup> Average number during year, excluding heifers not yet fresh.

<sup>2</sup> Excludes milk sucked by calves.



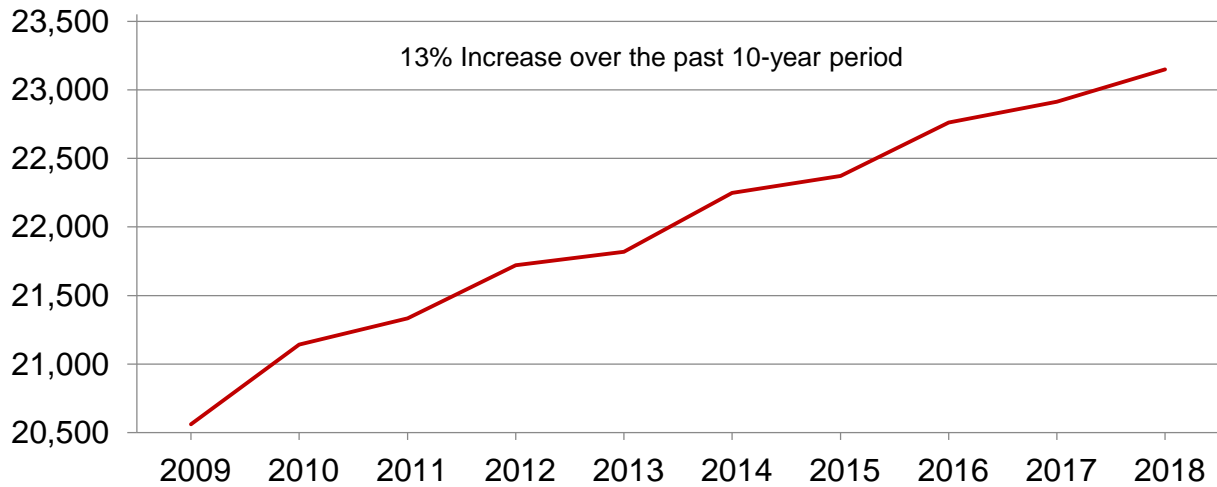
## Milk Cows – United States: 2009-2018

Thousand head



## Production per Cow – United States: 2009-2018

Pounds



## Milk Cows by Month – 23 Selected States, 23 State Total, and United States: 2017

[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 .....	205	205	206	207	209	209
California .....	1,755	1,755	1,755	1,755	1,753	1,749
Colorado .....	157	158	159	160	161	162
Florida .....	122	123	124	124	124	124
Idaho .....	600	596	596	596	600	601
Illinois .....	93	93	93	93	93	93
Indiana .....	186	186	186	187	188	188
Iowa .....	215	216	216	217	217	217
Kansas .....	151	151	153	152	150	151
Michigan .....	425	425	425	426	427	427
Minnesota .....	460	460	459	459	459	458
New Mexico .....	325	325	327	328	329	332
New York .....	621	622	623	624	624	624
Ohio .....	263	264	264	264	264	264
Oregon .....	124	124	124	124	124	124
Pennsylvania .....	525	525	525	525	525	525
South Dakota .....	117	117	117	117	117	118
Texas .....	500	503	507	510	513	515
Utah .....	92	92	94	94	96	96
Vermont .....	129	129	129	129	129	129
Virginia .....	87	87	87	87	87	87
Washington .....	275	274	273	273	273	273
Wisconsin .....	1,280	1,280	1,280	1,279	1,279	1,278
23-State total .....	8,707	8,710	8,722	8,730	8,741	8,744
United States <sup>1</sup> .....	9,375	9,378	9,391	9,400	9,411	9,413

State	July	August	September	October	November	December	Annual average <sup>2</sup>
	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)
Arizona .....	209	209	209	211	210	210	208
California .....	1,747	1,746	1,745	1,743	1,743	1,741	1,749
Colorado .....	163	164	165	166	166	167	162
Florida .....	124	124	123	124	124	124	124
Idaho .....	601	603	603	600	600	600	600
Illinois .....	93	93	93	93	93	93	93
Indiana .....	187	187	187	187	187	187	187
Iowa .....	217	219	219	219	219	220	218
Kansas .....	151	152	152	152	153	155	152
Michigan .....	427	428	428	428	428	428	427
Minnesota .....	458	458	457	457	456	456	458
New Mexico .....	332	331	331	329	330	332	329
New York .....	624	624	624	624	625	625	624
Ohio .....	264	264	264	264	264	264	264
Oregon .....	124	123	123	123	124	124	124
Pennsylvania .....	525	525	525	525	525	525	525
South Dakota .....	118	118	118	117	117	118	117
Texas .....	515	519	522	523	526	527	515
Utah .....	97	97	97	97	97	97	96
Vermont .....	129	129	128	128	128	128	129
Virginia .....	87	87	87	87	87	87	87
Washington .....	275	275	274	274	274	275	274
Wisconsin .....	1,278	1,278	1,277	1,277	1,277	1,276	1,278
23-State Total .....	8,745	8,753	8,751	8,748	8,753	8,759	8,739
United States <sup>1</sup> .....	9,413	9,419	9,416	9,414	9,419	9,425	9,406

<sup>1</sup> United States monthly estimates are derived by proportionally allocating the quarterly estimates using the 23-state monthly total.

<sup>2</sup> Average based on monthly totals.

## Milk Cows by Month – 23 Selected States, 23 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
Idaho .....	605	607	607	607	610	610
Illinois .....	93	93	93	93	93	93
Indiana .....	187	186	185	185	184	184
Iowa .....	220	220	220	220	220	220
Kansas .....	156	156	157	157	158	159
Michigan .....	428	427	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	524	523	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	85	84	84
Washington .....	276	275	275	276	277	277
Wisconsin .....	1,275	1,275	1,274	1,274	1,274	1,274
23-State total .....	8,771	8,770	8,764	8,760	8,765	8,758
United States <sup>1</sup> .....	9,438	9,436	9,430	9,418	9,422	9,414

State	July	August	September	October	November	December	Annual average <sup>2</sup>
	(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
Idaho .....	610	610	610	610	612	614	609
Illinois .....	92	90	88	86	85	85	90
Indiana .....	184	184	182	182	181	181	184
Iowa .....	220	220	220	220	220	220	220
Kansas .....	159	160	160	160	160	161	159
Michigan .....	423	423	422	422	422	422	424
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	517	515	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
23-State total .....	8,748	8,747	8,727	8,726	8,721	8,717	8,748
United States <sup>1</sup> .....	9,392	9,389	9,368	9,367	9,358	9,353	9,399

<sup>1</sup> United States monthly estimates are derived by proportionally allocating the quarterly estimates using the 23-state monthly total.

<sup>2</sup> Average based on monthly totals.

## Milk Produced per Cow by Month – 23 Selected States, 23 State Total, and United States: 2017

[Excludes milk sucked by calves]

State	January	February	March	April	May	June
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)
Arizona .....	2,075	2,000	2,245	2,175	2,185	2,030
California .....	1,945	1,780	1,995	1,960	2,005	1,880
Colorado .....	2,145	1,980	2,220	2,150	2,185	2,145
Florida .....	1,850	1,730	1,925	1,830	1,865	1,725
Idaho .....	1,995	1,800	2,025	2,000	2,130	2,090
Illinois .....	1,765	1,640	1,860	1,810	1,860	1,720
Indiana .....	1,930	1,765	2,005	1,955	2,055	1,915
Iowa .....	2,010	1,830	2,045	1,995	2,055	1,975
Kansas .....	1,935	1,805	2,030	1,955	1,930	1,865
Michigan .....	2,190	2,030	2,265	2,225	2,315	2,220
Minnesota .....	1,805	1,660	1,855	1,810	1,870	1,805
New Mexico .....	2,090	1,960	2,220	2,150	2,210	2,095
New York .....	2,030	1,855	2,060	2,050	2,120	2,015
Ohio .....	1,815	1,660	1,870	1,850	1,915	1,790
Oregon .....	1,685	1,555	1,775	1,725	1,790	1,740
Pennsylvania .....	1,765	1,635	1,840	1,805	1,840	1,725
South Dakota .....	1,880	1,715	1,915	1,855	1,915	1,840
Texas .....	1,990	1,845	2,100	2,010	2,075	1,975
Utah .....	1,905	1,730	1,950	1,940	2,020	1,980
Vermont .....	1,805	1,645	1,820	1,785	1,855	1,775
Virginia .....	1,700	1,585	1,795	1,765	1,775	1,625
Washington .....	1,960	1,795	2,020	1,990	2,080	2,025
Wisconsin .....	1,980	1,820	2,035	1,985	2,055	1,980
23-State total .....	1,953	1,797	2,016	1,973	2,035	1,940
United States <sup>1</sup> .....	1,935	1,781	1,997	1,953	2,014	1,920

State	July	August	September	October	November	December	Annual average
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)
Arizona .....	1,930	1,845	1,785	1,940	1,935	2,040	24,197
California .....	1,930	1,870	1,760	1,870	1,825	1,935	22,755
Colorado .....	2,215	2,210	2,095	2,140	2,110	2,210	25,858
Florida .....	1,645	1,555	1,400	1,460	1,515	1,675	20,129
Idaho .....	2,160	2,155	2,025	2,045	1,955	2,020	24,388
Illinois .....	1,690	1,675	1,600	1,680	1,670	1,770	20,742
Indiana .....	1,860	1,860	1,810	1,885	1,830	1,900	22,754
Iowa .....	2,005	2,010	1,915	1,995	1,950	2,020	23,757
Kansas .....	1,920	1,920	1,880	1,935	1,880	1,960	23,020
Michigan .....	2,255	2,230	2,100	2,185	2,115	2,180	26,302
Minnesota .....	1,835	1,830	1,740	1,790	1,725	1,815	21,544
New Mexico .....	2,125	2,065	1,965	2,000	1,985	2,075	24,960
New York .....	2,045	2,015	1,925	1,975	1,895	1,955	23,925
Ohio .....	1,770	1,760	1,680	1,730	1,695	1,755	21,284
Oregon .....	1,755	1,735	1,675	1,700	1,620	1,675	20,395
Pennsylvania .....	1,730	1,710	1,640	1,685	1,645	1,725	20,749
South Dakota .....	1,905	1,915	1,820	1,870	1,795	1,865	22,376
Texas .....	1,990	1,935	1,830	1,860	1,850	1,955	23,406
Utah .....	2,015	2,010	1,910	1,930	1,880	1,935	23,073
Vermont .....	1,800	1,775	1,710	1,765	1,705	1,775	21,155
Virginia .....	1,605	1,610	1,580	1,630	1,610	1,680	19,954
Washington .....	2,070	2,050	1,965	1,995	1,900	1,985	23,836
Wisconsin .....	2,025	2,025	1,930	1,995	1,910	1,990	23,735
23-State total .....	1,969	1,942	1,845	1,910	1,855	1,941	23,176
United States <sup>1</sup> .....	1,941	1,915	1,819	1,887	1,833	1,918	22,914

<sup>1</sup> United States monthly estimates are derived by proportionally allocating the quarterly estimates using the 23-state monthly total.

## Milk Produced per Cow by Month – 23 Selected States, 23 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
Idaho .....	2,055	1,875	2,085	2,035	2,170	2,095
Illinois .....	1,800	1,670	1,875	1,800	1,890	1,720
Indiana .....	1,930	1,760	1,995	1,950	2,010	1,885
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 .....	2,190	2,015	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	1,775	1,825	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	1,785
Virginia .....	1,700	1,570	1,765	1,715	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
23-State total .....	1,973	1,817	2,034	1,977	2,053	1,963
United States <sup>1</sup> .....	1,953	1,799	2,014	1,955	2,030	1,943

State	July	August	September	October	November	December	Annual average
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)
Arizona .....	1,895	1,835	1,795	1,910	1,920	2,060	23,933
California .....	1,900	1,905	1,860	1,915	1,890	1,970	23,306
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	1,665	19,842
Idaho .....	2,175	2,170	2,045	2,100	1,995	2,060	24,875
Illinois .....	1,680	1,675	1,570	1,675	1,660	1,770	20,867
Indiana .....	1,890	1,880	1,770	1,870	1,810	1,890	22,614
Iowa .....	1,995	1,995	1,920	2,025	1,965	2,035	23,945
Kansas .....	1,970	1,970	1,870	1,925	1,890	1,970	23,321
Michigan .....	2,240	2,240	2,115	2,195	2,120	2,205	26,340
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	1,665	1,610	1,695	20,549
South Dakota .....	1,900	1,915	1,840	1,885	1,820	1,900	22,355
Texas .....	2,050	2,035	1,925	1,935	1,890	1,985	23,933
Utah .....	2,000	2,000	1,920	1,935	1,870	1,920	23,220
Vermont .....	1,770	1,785	1,720	1,760	1,690	1,785	21,102
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
23-State total .....	1,979	1,970	1,883	1,933	1,878	1,966	23,426
United States <sup>1</sup> .....	1,952	1,943	1,857	1,908	1,854	1,941	23,149

<sup>1</sup> United States monthly estimates are derived by proportionally allocating the quarterly estimates using the 23-state monthly total.

## Milk Production by Month – 23 Selected States, 23 State Total, and United States: 2017

[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 .....	425	410	462	450	457	424
California .....	3,413	3,124	3,501	3,440	3,515	3,288
Colorado .....	337	313	353	344	352	347
Florida .....	226	213	239	227	231	214
Idaho .....	1,197	1,073	1,207	1,192	1,278	1,256
Illinois .....	164	153	173	168	173	160
Indiana .....	359	328	373	366	386	360
Iowa .....	432	395	442	433	446	429
Kansas .....	292	273	311	297	290	282
Michigan .....	931	863	963	948	989	948
Minnesota .....	830	764	851	831	858	827
New Mexico .....	679	637	726	705	727	696
New York .....	1,261	1,154	1,283	1,279	1,323	1,257
Ohio .....	477	438	494	488	506	473
Oregon .....	209	193	220	214	222	216
Pennsylvania .....	927	858	966	948	966	906
South Dakota .....	220	201	224	217	224	217
Texas .....	995	928	1,065	1,025	1,064	1,017
Utah .....	175	159	183	182	194	190
Vermont .....	233	212	235	230	239	229
Virginia .....	148	138	156	154	154	141
Washington .....	539	492	551	543	568	553
Wisconsin .....	2,534	2,330	2,605	2,539	2,628	2,530
23-State total .....	17,003	15,649	17,583	17,220	17,790	16,960
United States <sup>1</sup> .....	18,140	16,698	18,758	18,357	18,958	18,073

State	July	August	September	October	November	December	Annual total <sup>2</sup>
	(million pounds)	(million pounds)	(million pounds)	(million pounds)	(million pounds)	(million pounds)	(million pounds)
Arizona .....	403	386	373	409	406	428	5,033
California .....	3,372	3,265	3,071	3,259	3,181	3,369	39,798
Colorado .....	361	362	346	355	350	369	4,189
Florida .....	204	193	172	181	188	208	2,496
Idaho .....	1,298	1,299	1,221	1,227	1,173	1,212	14,633
Illinois .....	157	156	149	156	155	165	1,929
Indiana .....	348	348	338	352	342	355	4,255
Iowa .....	435	440	419	437	427	444	5,179
Kansas .....	290	292	286	294	288	304	3,499
Michigan .....	963	954	899	935	905	933	11,231
Minnesota .....	840	838	795	818	787	828	9,867
New Mexico .....	706	684	650	658	655	689	8,212
New York .....	1,276	1,257	1,201	1,232	1,184	1,222	14,929
Ohio .....	467	465	444	457	447	463	5,619
Oregon .....	218	213	206	209	201	208	2,529
Pennsylvania .....	908	898	861	885	864	906	10,893
South Dakota .....	225	226	215	219	210	220	2,618
Texas .....	1,025	1,004	955	973	973	1,030	12,054
Utah .....	195	195	185	187	182	188	2,215
Vermont .....	232	229	219	226	218	227	2,729
Virginia .....	140	140	137	142	140	146	1,736
Washington .....	569	564	538	547	521	546	6,531
Wisconsin .....	2,588	2,588	2,465	2,548	2,439	2,539	30,333
23-State total .....	17,220	16,996	16,145	16,706	16,236	16,999	202,507
United States <sup>1</sup> .....	18,270	18,037	17,131	17,765	17,265	18,075	215,527

<sup>1</sup> United States monthly estimates are derived by proportionally allocating the quarterly estimates using the 23-state monthly total.

<sup>2</sup> Total milk production for year.

## Milk Production by Month – 23 Selected States, 23 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
Idaho .....	1,243	1,138	1,266	1,235	1,324	1,278
Illinois .....	167	155	174	167	176	160
Indiana .....	361	327	369	361	370	347
Iowa .....	448	409	455	442	453	435
Kansas .....	306	284	320	312	324	308
Michigan .....	937	860	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	930	954	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	227
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
23-State total .....	17,308	15,936	17,826	17,318	17,995	17,195
United States <sup>1</sup> .....	18,437	16,973	18,989	18,412	19,131	18,288

State	July	August	September	October	November	December	Annual total <sup>2</sup>
	(million pounds)	(million pounds)	(million pounds)	(million pounds)	(million pounds)	(million pounds)	(million pounds)
Arizona .....	390	378	370	392	394	422	4,978
California .....	3,295	3,303	3,222	3,317	3,272	3,408	40,413
Colorado .....	392	393	376	385	372	391	4,557
Florida .....	188	180	163	170	182	193	2,381
Idaho .....	1,327	1,324	1,247	1,281	1,221	1,265	15,149
Illinois .....	155	151	138	144	141	150	1,878
Indiana .....	348	346	322	340	328	342	4,161
Iowa .....	439	439	422	446	432	448	5,268
Kansas .....	313	315	299	308	302	317	3,708
Michigan .....	948	948	893	926	895	931	11,168
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	832	857	819	856	10,665
South Dakota .....	230	232	223	228	222	232	2,705
Texas .....	1,103	1,099	1,040	1,045	1,024	1,080	12,852
Utah .....	202	202	192	194	187	192	2,322
Vermont .....	225	227	217	222	213	225	2,680
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
23-State total .....	17,311	17,233	16,432	16,870	16,374	17,135	204,933
United States <sup>1</sup> .....	18,329	18,245	17,395	17,873	17,348	18,155	217,575

<sup>1</sup> United States monthly estimates are derived by proportionally allocating the quarterly estimates using the 23-state monthly total.

<sup>2</sup> Total milk production for year.

# Milk Cows and Production by Quarter – States and United States: 2017

[May not add due to rounding]

State	Milk cows <sup>1</sup>				Milk production <sup>2</sup>			
	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 .....	6.5	6.5	6.0	6.0	26.0	26.0	19.0	19.0
Alaska .....	0.3	0.3	0.3	0.3	0.9	0.7	0.6	0.7
Arizona .....	205.0	208.0	209.0	210.0	1,297.0	1,331.0	1,162.0	1,243.0
Arkansas .....	6.0	6.0	6.0	6.0	22.0	23.0	17.0	18.0
California .....	1,755.0	1,752.0	1,746.0	1,742.0	10,038.0	10,243.0	9,708.0	9,809.0
Colorado .....	158.0	161.0	164.0	166.0	1,003.0	1,043.0	1,069.0	1,074.0
Connecticut .....	19.0	18.5	19.0	20.0	104.0	106.0	102.0	108.0
Delaware .....	5.0	5.0	5.0	5.0	24.8	24.3	21.2	22.5
Florida .....	123.0	124.0	124.0	124.0	678.0	672.0	569.0	577.0
Georgia .....	84.0	84.0	84.0	85.0	502.0	488.0	416.0	434.0
Hawaii .....	2.4	2.3	2.2	2.1	9.4	10.7	9.8	9.0
Idaho .....	597.0	599.0	602.0	600.0	3,477.0	3,726.0	3,818.0	3,612.0
Illinois .....	93.0	93.0	93.0	93.0	490.0	501.0	462.0	476.0
Indiana .....	186.0	188.0	187.0	187.0	1,060.0	1,112.0	1,034.0	1,049.0
Iowa .....	216.0	217.0	218.0	219.0	1,269.0	1,308.0	1,294.0	1,308.0
Kansas .....	152.0	151.0	152.0	153.0	876.0	869.0	868.0	886.0
Kentucky .....	56.0	56.0	55.0	56.0	271.0	277.0	237.0	257.0
Louisiana .....	12.0	12.0	12.0	12.0	47.0	44.0	33.0	37.0
Maine .....	30.0	30.0	30.0	30.0	155.0	163.0	159.0	153.0
Maryland .....	47.0	48.0	48.0	47.0	248.0	248.0	227.0	233.0
Massachusetts .....	11.5	11.5	11.5	11.5	54.0	55.0	52.0	50.0
Michigan .....	425.0	427.0	428.0	428.0	2,757.0	2,885.0	2,816.0	2,773.0
Minnesota .....	460.0	459.0	458.0	456.0	2,445.0	2,516.0	2,473.0	2,433.0
Mississippi .....	9.0	9.0	9.0	9.0	40.0	38.0	29.0	30.0
Missouri .....	85.0	85.0	85.0	84.0	318.0	345.0	286.0	292.0
Montana .....	13.5	13.5	13.5	13.0	71.0	73.0	73.0	71.0
Nebraska .....	60.0	60.0	60.0	60.0	355.0	362.0	361.0	366.0
Nevada .....	31.0	32.0	32.0	32.0	165.0	181.0	182.0	181.0
New Hampshire .....	13.5	13.5	13.0	12.5	72.0	72.0	65.0	64.0
New Jersey .....	6.0	6.0	6.0	6.0	31.0	31.0	28.0	29.0
New Mexico .....	326.0	330.0	331.0	330.0	2,042.0	2,128.0	2,040.0	2,002.0
New York .....	622.0	624.0	624.0	625.0	3,698.0	3,859.0	3,734.0	3,638.0
North Carolina .....	45.0	45.0	44.0	45.0	251.0	247.0	220.0	234.0
North Dakota .....	15.5	16.0	16.0	16.0	83.0	89.0	88.0	85.0
Ohio .....	264.0	264.0	264.0	264.0	1,409.0	1,467.0	1,376.0	1,367.0
Oklahoma .....	38.0	39.0	40.0	41.0	188.0	192.0	170.0	178.0
Oregon .....	124.0	124.0	123.0	124.0	622.0	652.0	637.0	618.0
Pennsylvania .....	525.0	525.0	525.0	525.0	2,751.0	2,820.0	2,667.0	2,655.0
Rhode Island .....	0.8	0.8	0.8	0.8	3.1	3.3	3.4	3.2
South Carolina .....	15.0	15.0	14.5	15.0	68.0	67.0	54.0	59.0
South Dakota .....	117.0	117.0	118.0	117.0	645.0	658.0	666.0	649.0
Tennessee .....	41.0	40.0	39.0	40.0	184.0	183.0	158.0	168.0
Texas .....	503.0	513.0	519.0	525.0	2,988.0	3,106.0	2,984.0	2,976.0
Utah .....	93.0	95.0	97.0	97.0	517.0	566.0	575.0	557.0
Vermont .....	129.0	129.0	129.0	128.0	680.0	698.0	680.0	671.0
Virginia .....	87.0	87.0	87.0	87.0	442.0	449.0	417.0	428.0
Washington .....	274.0	273.0	275.0	274.0	1,582.0	1,664.0	1,671.0	1,614.0
West Virginia .....	8.0	8.0	7.5	7.0	33.0	34.0	31.0	29.0
Wisconsin .....	1,280.0	1,279.0	1,278.0	1,277.0	7,469.0	7,697.0	7,641.0	7,526.0
Wyoming .....	6.0	6.0	6.0	6.0	34.8	34.8	34.7	33.9
United States .....	9,381.0	9,408.0	9,416.0	9,419.0	53,596.0	55,388.0	53,438.0	53,105.0

<sup>1</sup> Quarterly average includes dry cows, excludes heifers not yet fresh.

<sup>2</sup> Excludes milk sucked by calves.



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

[May not add due to rounding]

State	Milk cows <sup>1</sup>				Milk production <sup>2</sup>			
	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 .....	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	1,208.0
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	9,997.0
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	545.0
Georgia .....	85.0	83.0	80.0	81.0	479.0	454.0	411.0	422.0
Hawaii .....	2.1	2.1	2.0	1.7	10.2	10.7	7.8	5.3
Idaho .....	606.0	609.0	610.0	612.0	3,647.0	3,837.0	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	184.0	183.0	181.0	1,057.0	1,078.0	1,016.0	1,010.0
Iowa .....	220.0	220.0	220.0	220.0	1,312.0	1,330.0	1,300.0	1,326.0
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 .....	427.0	423.0	423.0	422.0	2,758.0	2,869.0	2,789.0	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	523.0	519.0	510.0	2,739.0	2,780.0	2,614.0	2,532.0
Rhode Island .....	0.8	0.7	0.7	0.7	3.0	3.0	3.0	2.7
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	682.0
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	3,149.0
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	684.0	669.0	660.0
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 .....	9,435.0	9,418.0	9,383.0	9,359.0	54,399.0	55,831.0	53,969.0	53,376.0

<sup>1</sup> Quarterly average includes dry cows, excludes heifers not yet fresh.

<sup>2</sup> Excludes milk sucked by calves.

## Licensed Dairy Herds – States and United States: 2017 and 2018

	Licensed dairy herds <sup>1</sup>	
	2017 (number)	2018 (number)
Alabama .....	35	30
Alaska .....	2	1
Arizona .....	100	100
Arkansas .....	55	50
California .....	1,390	1,335
Colorado .....	120	120
Connecticut .....	110	110
Delaware .....	30	25
Florida .....	110	95
Georgia .....	180	160
Hawaii .....	2	2
Idaho .....	510	480
Illinois .....	630	600
Indiana .....	1,070	965
Iowa .....	1,200	1,120
Kansas .....	290	280
Kentucky .....	600	540
Louisiana .....	95	90
Maine .....	250	230
Maryland .....	400	380
Massachusetts .....	140	130
Michigan .....	1,750	1,520
Minnesota .....	3,210	2,980
Mississippi .....	70	65
Missouri .....	1,040	920
Montana .....	65	60
Nebraska .....	155	155
Nevada .....	20	20
New Hampshire .....	110	100
New Jersey .....	55	50
New Mexico .....	150	140
New York .....	4,470	4,190
North Carolina .....	190	180
North Dakota .....	80	80
Ohio .....	2,380	2,200
Oklahoma .....	160	150
Oregon .....	230	220
Pennsylvania .....	6,570	6,200
Rhode Island .....	10	10
South Carolina .....	60	50
South Dakota .....	225	215
Tennessee .....	270	250
Texas .....	400	400
Utah .....	180	180
Vermont .....	820	730
Virginia .....	585	565
Washington .....	450	410
West Virginia .....	75	75
Wisconsin .....	9,090	8,500
Wyoming .....	10	10
United States .....	40,199	37,468

<sup>1</sup> 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 23 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 17.5 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	22	2	67	17	7
All Milk cows .....	0.2	0.3	15	2	31	24	0

## 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@nass.usda.gov](mailto:nass@nass.usda.gov).

Travis Averill, Chief, Livestock Branch .....	(202) 720-3570
Scott Hollis, Head, Livestock Section .....	(202) 690-2424
Sherry Bertramsen – Livestock Slaughter .....	(202) 690-8632
Holly Brenize – Sheep and Goats .....	(202) 720-0585
Donnie Fike – Dairy Products .....	(202) 720-4448
Heidi Gleich – Cattle, Cattle on Feed .....	(202) 720-3040
Mike Miller – Milk Production and Milk Cows .....	(202) 720-3278
Seth Riggins – Hogs and Pigs .....	(202) 720-3106

## Access to NASS Reports

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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](mailto: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@nass.usda.gov](mailto:nass@nass.usda.gov).

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**USDA NASS Data Users' Meeting**  
**Tuesday, April 23, 2019**

University of Chicago – Gleacher Center  
450 North Cityfront Plaza Drive  
Chicago, IL 60611  
312-464-8787

USDA's National Agricultural Statistics Service will hold an open forum for users of U.S. domestic and international agriculture data. NASS is organizing the 2019 Data Users' Meeting in cooperation with five other USDA agencies – Agricultural Marketing Service, Economic Research Service, Farm Service Agency, Foreign Agricultural Service, and World Agricultural Outlook Board – and the Census Bureau's Foreign Trade Division. Agency representatives will provide updates on recent and pending changes in statistical and information programs important to agriculture, answer questions, and welcome comments and input from data users.

For registration details or additional information about the Data Users' Meeting, see the meeting page on the NASS website ([https://www.nass.usda.gov/Education\\_and\\_Outreach/Meeting/index.php](https://www.nass.usda.gov/Education_and_Outreach/Meeting/index.php)). Contact Vernita Murray (NASS) at 202-690-8141 or [vernita.murray@nass.usda.gov](mailto:vernita.murray@nass.usda.gov) or Patricia Snipe (NASS) at 202-720-2248 or [patricia.snipe@nass.usda.gov](mailto:patricia.snipe@nass.usda.gov) for information.

The Data Users' Meeting precedes the Industry Outlook Conference at the same location on Wednesday, April 24, 2019. The outlook meeting brings together analysts from various commodity sectors to discuss developments and trends. For registration details or additional information about the Industry Outlook Conference, see the conference page on the LMIC website (<http://lmic.info/page/meetings>). Or contact Laura Lahr at 303-716-9935 or [laura.lahr@lmic.info](mailto:laura.lahr@lmic.info).