



# Milk Production

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## January Milk Production up 1.0 percent

**Milk production** in the 23 major States during January totaled 16.1 billion pounds, up 1.0 percent from January 2013. December revised production at 15.7 billion pounds, was down 0.3 percent from December 2012. The December revision represented a decrease of 19 million pounds or 0.1 percent from last month's preliminary production estimate.

**Production per cow** in the 23 major States averaged 1,891 pounds for January, 17 pounds above January 2013.

**The number of milk cows** on farms in the 23 major States was 8.51 million head, 7,000 head more than January 2013, and 6,000 head more than December 2013.

## 2013 Annual Milk Production up 0.3 Percent from 2012

**The annual production of milk** for the United States during 2013 was 201 billion pounds, 0.3 percent above 2012. Revisions to 2012 production increased the annual total 213 million pounds. Revised 2013 production was up 32 million pounds from last month's publication.

**Production per cow** in the United States averaged 21,822 pounds for 2013, 102 pounds above 2012. The average annual rate of milk production per cow has increased 15.1 percent from 2004.

**The average number of milk cows on farms** in the United States during 2013 was 9.22 million head, down 0.1 percent from 2012. The average number of milk cows was revised down 5,000 head for 2013.

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## Milk Cows and Production by Quarter – United States: 2013 - 2014

[May not add due to rounding.]

Quarter	Milk Cows <sup>1</sup>		Milk Per Cow <sup>2</sup>		Milk Production <sup>2</sup>		
	2013 <sup>3</sup>	2014	2013 <sup>3</sup>	2014	2013	2014	Change From 2013
	(1,000 Head)	(1,000 Head)	(Pounds)	(Pounds)	(Million Pounds)	(Million Pounds)	(Percent)
January-March .....					50,545		
April-June .....					51,997		
July-September .....	9,224		5,356		49,408		
October-December .....	9,201		5,355		49,268		
Annual .....	9,221		21,822		201,218		

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

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

<sup>3</sup> Survey was not conducted in April and July, resulting in no milk cow and milk per cow data for March through June. 2013 annual totals include modeled data.

## Milk Cows and Production By Month – 23 Selected States: 2013 - 2014

Month	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		
	2013 <sup>3</sup>	2014	2013 <sup>3</sup>	2014	2013	2014	Change from 2013
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January .....	8,498	8,505	1,874	1,891	15,927	16,082	1.0
February .....	8,499		1,726		14,670		
March .....					16,455		
April .....					16,070		
May .....					16,605		
June .....					15,806		
July .....	8,520		1,842		15,697		
August .....	8,520		1,843		15,700		
September .....	8,504		1,741		14,807		
October .....	8,499		1,810		15,382		
November .....	8,494		1,759		14,941		
December .....	8,499		1,844		15,676		
Annual .....	8,506		22,069		187,736		

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

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

<sup>3</sup> Survey was not conducted in April and July, resulting in no milk cow and milk per cow data for March through June.

## Estimated Milk Cows and Production By Month – United States: 2013 - 2014

Month	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		
	2013 <sup>3</sup>	2014	2013 <sup>3</sup>	2014	2013	2014	Change from 2013
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
January .....	9,222	9,209	1,855	1,874	17,109	17,255	0.9
February .....	9,223		1,709		15,759		
March .....					17,677		
April .....					17,249		
May .....					17,813		
June .....					16,935		
July .....	9,235		1,818		16,788		
August .....	9,229		1,819		16,789		
September .....	9,208		1,719		15,831		
October .....	9,203		1,790		16,475		
November .....	9,198		1,740		16,003		
December .....	9,202		1,825		16,790		
Annual .....	9,221		21,822		201,218		

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

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

<sup>3</sup> Survey was not conducted in April and July, resulting in no milk cow and milk per cow data for March through June.

## Milk Cows and Production – 23 Selected States: January 2013 and 2014

[May not add due to rounding.]

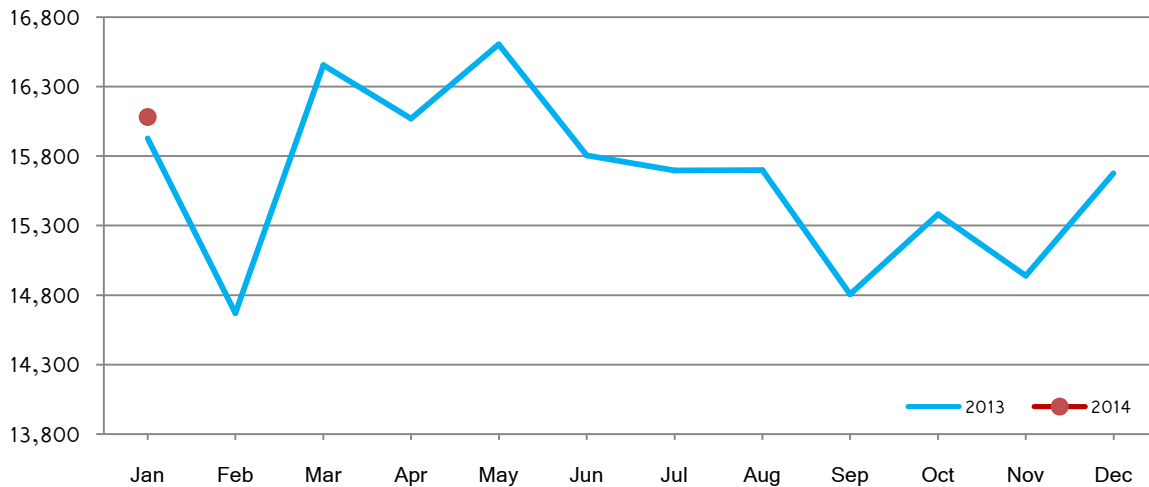
	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk Production <sup>2</sup>		
	2013	2014	2013	2014	2013	2014	Change from 2013
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona .....	190	192	2,075	2,070	394	397	0.8
California .....	1,780	1,781	1,945	2,035	3,462	3,624	4.7
Colorado .....	135	140	2,040	2,080	275	291	5.8
Florida .....	122	123	1,730	1,725	211	212	0.5
Idaho .....	579	565	1,910	1,965	1,106	1,110	0.4
Illinois .....	97	96	1,730	1,670	168	160	-4.8
Indiana .....	175	178	1,850	1,850	324	329	1.5
Iowa .....	206	205	1,940	1,905	400	391	-2.3
Kansas .....	132	137	1,855	1,880	245	258	5.3
Michigan .....	378	381	2,060	2,070	779	789	1.3
Minnesota .....	465	460	1,715	1,695	797	780	-2.1
Missouri .....	93	90	1,220	1,200	113	108	-4.4
New Mexico .....	320	323	2,150	2,110	688	682	-0.9
New York .....	610	615	1,855	1,845	1,132	1,135	0.3
Ohio .....	271	267	1,725	1,725	467	461	-1.3
Oregon .....	123	124	1,675	1,735	206	215	4.4
Pennsylvania .....	535	531	1,690	1,710	904	908	0.4
Texas .....	435	440	1,880	1,920	818	845	3.3
Utah .....	90	95	1,865	1,820	168	173	3.0
Vermont .....	134	132	1,650	1,690	221	223	0.9
Virginia .....	94	93	1,600	1,650	150	153	2.0
Washington .....	264	267	1,985	1,995	524	533	1.7
Wisconsin .....	1,270	1,270	1,870	1,815	2,375	2,305	-2.9
23-State Total .....	8,498	8,505	1,874	1,891	15,927	16,082	1.0

<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 2012 and 2013

State	Milk cows <sup>1</sup>		Milk per cow <sup>2</sup>		Milk production <sup>2</sup>		Change from 2012
	2012	2013	2012	2013	2012	2013	
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Arizona .....	188	191	1,995	1,985	375	379	1.1
California .....	1,780	1,781	1,920	1,950	3,418	3,473	1.6
Colorado .....	135	140	2,020	2,055	273	288	5.5
Florida .....	122	123	1,580	1,600	193	197	2.1
Idaho .....	580	565	1,930	1,960	1,119	1,107	-1.1
Illinois .....	98	96	1,690	1,630	166	156	-6.0
Indiana .....	174	178	1,850	1,820	322	324	0.6
Iowa .....	205	206	1,935	1,870	397	385	-3.0
Kansas .....	131	136	1,845	1,845	242	251	3.7
Michigan .....	377	380	2,025	2,020	763	768	0.7
Minnesota .....	465	460	1,695	1,665	788	766	-2.8
Missouri .....	93	90	1,230	1,190	114	107	-6.1
New Mexico .....	321	323	2,100	2,050	674	662	-1.8
New York .....	610	613	1,830	1,820	1,116	1,116	-
Ohio .....	270	267	1,710	1,680	462	449	-2.8
Oregon .....	123	124	1,660	1,675	204	208	2.0
Pennsylvania .....	534	530	1,675	1,675	894	888	-0.7
Texas .....	433	440	1,855	1,820	803	801	-0.2
Utah .....	90	94	1,900	1,820	171	171	-
Vermont .....	134	132	1,630	1,650	218	218	-
Virginia .....	95	94	1,545	1,600	147	150	2.0
Washington .....	264	266	1,950	1,955	515	520	1.0
Wisconsin .....	1,270	1,270	1,850	1,805	2,350	2,292	-2.5
23-State Total .....	8,492	8,499	1,852	1,844	15,724	15,676	-0.3

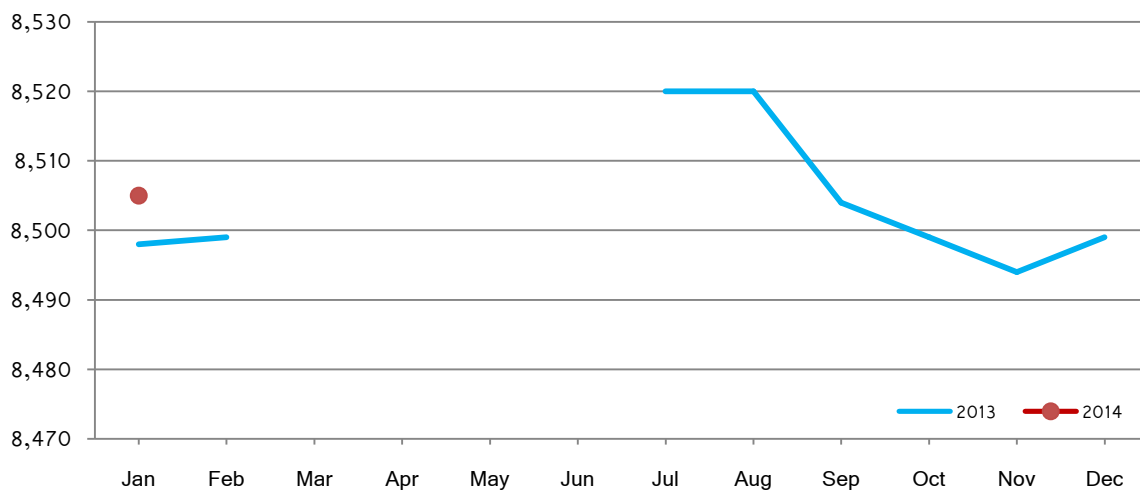
- Represents zero.

<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: 2004-2013

[May not add due to rounding]

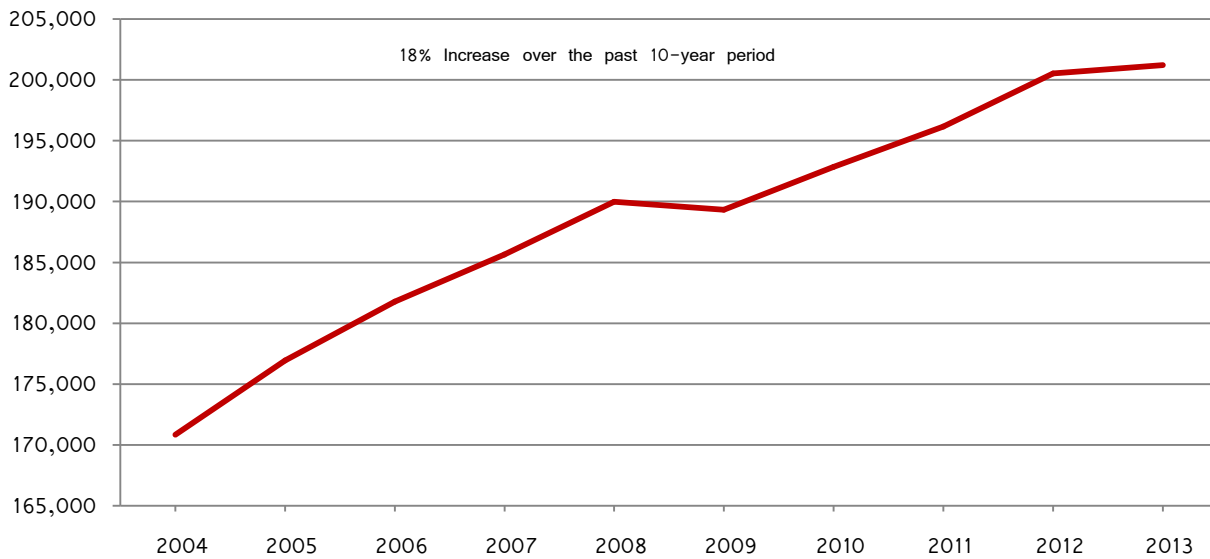
Year	Milk cows <sup>1</sup> (1,000 head)	Production per cow <sup>2</sup>		Milk production <sup>2</sup>
		Milk (pounds)	Total (million pounds)	
2004 .....	9,010	18,960	170,832	
2005 .....	9,050	19,550	176,931	
2006 .....	9,137	19,895	181,782	
2007 .....	9,189	20,204	185,654	
2008 .....	9,315	20,395	189,982	
2009 .....	9,203	20,573	189,334	
2010 .....	9,119	21,148	192,848	
2011 .....	9,194	21,336	196,164	
2012 .....	9,233	21,720	200,537	
2013 .....	9,221	21,822	201,218	

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

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

## Milk Production – United States: 2004–2013

Million pounds



## Milk Cows and Production – States and United States: 2012 and 2013

[May not add due to rounding.]

	Milk cows		Milk per cow		Milk Production		
	2012	2013	2012	2013	2012	2013	Change from 2012
	(1,000 head)	(1,000 head)	(pounds)	(pounds)	(million pounds)	(million pounds)	(percent)
Alabama .....	10.0	9.0	13,200	13,333	132.0	120.0	-9.1
Alaska .....	0.4	0.3	14,250	10,667	5.7	3.2	-43.9
Arizona .....	188.0	190.0	23,979	23,626	4,508.0	4,489.0	-0.4
Arkansas .....	10.0	9.0	13,300	11,667	133.0	105.0	-21.1
California .....	1,782.0	1,780.0	23,457	23,178	41,801.0	41,256.0	-1.3
Colorado .....	134.0	137.0	23,978	24,248	3,213.0	3,322.0	3.4
Connecticut .....	18.0	18.0	19,889	20,611	358.0	371.0	3.6
Delaware .....	4.9	4.8	19,143	19,521	93.8	93.7	-0.1
Florida .....	123.0	123.0	19,024	19,374	2,340.0	2,383.0	1.8
Georgia .....	80.0	80.0	19,125	19,500	1,530.0	1,560.0	2.0
Hawaii .....	2.0	2.2	14,200	13,409	28.4	29.5	3.9
Idaho .....	580.0	573.0	23,376	23,440	13,558.0	13,431.0	-0.9
Illinois .....	98.0	97.0	19,541	19,371	1,915.0	1,879.0	-1.9
Indiana .....	175.0	176.0	21,406	21,761	3,746.0	3,830.0	2.2
Iowa .....	205.0	208.0	22,010	22,144	4,512.0	4,606.0	2.1
Kansas .....	126.0	134.0	21,683	21,881	2,732.0	2,932.0	7.3
Kentucky .....	74.0	71.0	15,135	15,155	1,120.0	1,076.0	-3.9
Louisiana .....	17.0	16.0	13,059	12,875	222.0	206.0	-7.2
Maine .....	33.0	31.0	18,576	19,548	613.0	606.0	-1.1
Maryland .....	51.0	50.0	19,196	19,440	979.0	972.0	-0.7
Massachusetts ..	12.0	13.0	18,250	17,692	219.0	230.0	5.0
Michigan .....	375.0	380.0	23,976	24,116	8,991.0	9,164.0	1.9
Minnesota .....	465.0	464.0	19,512	19,698	9,073.0	9,140.0	0.7
Mississippi .....	14.0	14.0	14,214	13,214	199.0	185.0	-7.0
Missouri .....	94.0	92.0	14,957	14,663	1,406.0	1,349.0	-4.1
Montana .....	14.0	14.0	21,357	21,286	299.0	298.0	-0.3
Nebraska .....	56.0	54.0	21,179	21,574	1,186.0	1,165.0	-1.8
Nevada .....	29.0	29.0	22,966	22,207	666.0	644.0	-3.3
New Hampshire ..	14.0	13.0	19,643	20,846	275.0	271.0	-1.5
New Jersey .....	7.0	7.0	18,571	18,143	130.0	127.0	-2.3
New Mexico .....	330.0	323.0	24,694	24,944	8,149.0	8,057.0	-1.1
New York .....	610.0	610.0	21,623	22,080	13,190.0	13,469.0	2.1
North Carolina ..	46.0	46.0	20,435	20,326	940.0	935.0	-0.5
North Dakota .....	18.0	18.0	19,278	19,000	347.0	342.0	-1.4
Ohio .....	270.0	270.0	19,833	20,178	5,355.0	5,448.0	1.7
Oklahoma .....	48.0	45.0	17,688	17,556	849.0	790.0	-6.9
Oregon .....	123.0	123.0	20,431	20,439	2,513.0	2,514.0	0.0
Pennsylvania .....	536.0	533.0	19,549	19,822	10,478.0	10,565.0	0.8
Rhode Island .....	1.0	0.9	18,300	19,000	18.3	17.1	-6.6
South Carolina ..	16.0	16.0	17,250	16,500	276.0	264.0	-4.3
South Dakota .....	92.0	94.0	21,391	21,521	1,968.0	2,023.0	2.8
Tennessee .....	50.0	48.0	16,100	15,979	805.0	767.0	-4.7
Texas .....	436.0	437.0	22,009	21,984	9,596.0	9,610.0	0.1
Utah .....	91.0	92.0	22,341	22,130	2,033.0	2,036.0	0.1
Vermont .....	133.0	134.0	19,316	19,448	2,569.0	2,606.0	1.4
Virginia .....	96.0	95.0	17,990	18,337	1,727.0	1,742.0	0.9
Washington .....	262.0	266.0	23,794	23,820	6,234.0	6,336.0	1.6
West Virginia .....	10.0	10.0	15,800	15,200	158.0	152.0	-3.8
Wisconsin .....	1,270.0	1,271.0	21,436	21,693	27,224.0	27,572.0	1.3
Wyoming .....	6.0	6.0	20,650	21,367	123.9	128.2	3.5
United States .....	9,233.0	9,221.0	21,720	21,822	200,537.0	201,218.0	0.3

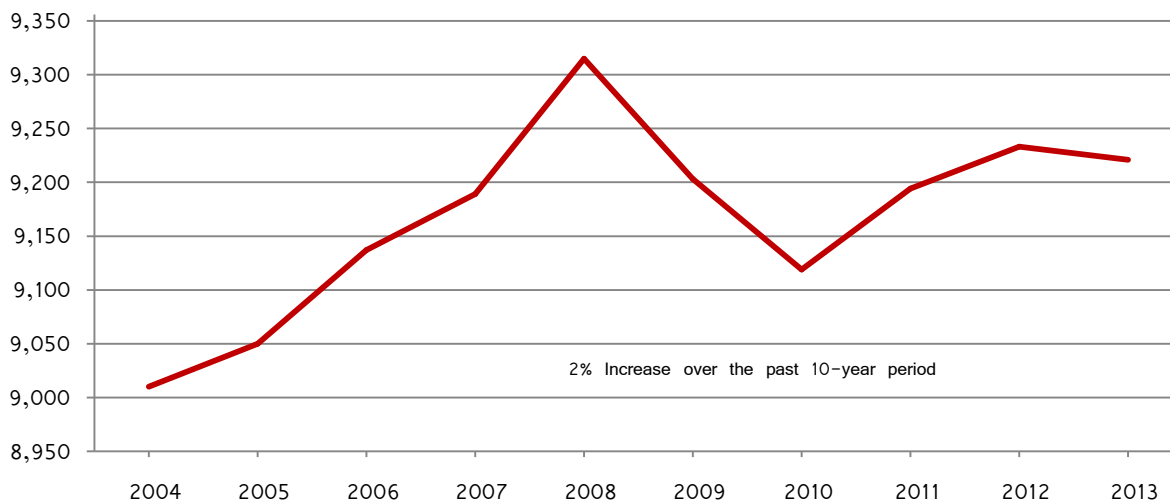
<sup>1</sup> Average number during year, excluding heifers not yet fresh.

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



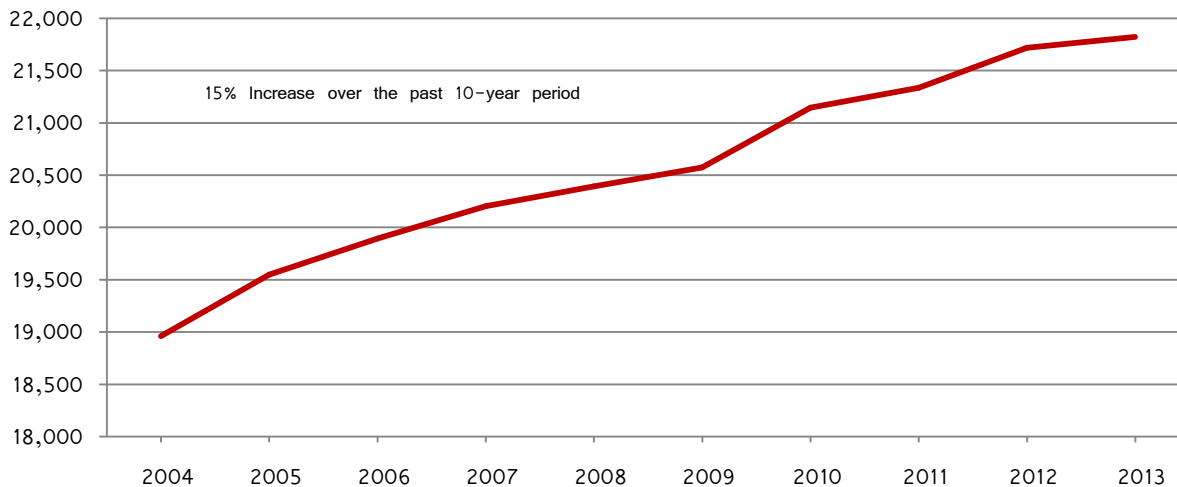
### Milk Cows – United States: 2004–2013

Thousand head



### Rate per Cow – United States: 2004–2013

Pounds



## Milk Cows by Month – 23 Selected States, 23 State Total, and United States: 2012

[Includes dry cows, excludes heifers not yet fresh]

State	January (1,000 head)	February (1,000 head)	March <sup>1</sup> (1,000 head)	April <sup>1</sup> (1,000 head)	May <sup>1</sup> (1,000 head)	June <sup>1</sup> (1,000 head)
Arizona .....	190	192	194	194	194	188
California .....	1,782	1,784	1,786	1,785	1,783	1,784
Colorado .....	133	133	132	132	132	133
Florida .....	122	122	122	123	123	123
Idaho .....	581	581	581	580	580	580
Illinois .....	99	98	98	98	98	98
Indiana .....	175	176	176	176	176	176
Iowa .....	205	206	207	207	206	205
Kansas .....	123	124	125	125	125	125
Michigan .....	373	375	375	375	375	375
Minnesota .....	465	465	465	465	465	465
Missouri .....	93	93	94	94	94	94
New Mexico .....	335	335	336	337	336	332
New York .....	610	610	610	610	610	610
Ohio .....	270	270	270	271	271	270
Oregon .....	123	123	123	123	123	123
Pennsylvania .....	540	541	540	538	536	535
Texas .....	435	436	439	440	440	440
Utah .....	91	91	91	91	91	91
Vermont .....	133	133	133	133	133	133
Virginia .....	96	96	96	96	96	96
Washington .....	263	263	263	264	265	261
Wisconsin .....	1,265	1,266	1,269	1,270	1,271	1,271
23-State total .....	8,502	8,513	8,525	8,527	8,523	8,508
United States <sup>2</sup> .....	9,242	9,256	9,270	9,271	9,260	9,239

See footnote(s) at end of table.

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	July	August	September	October	November	December	Annual average <sup>1</sup>
Arizona .....	185	184	181	183	185	188	188
California .....	1,780	1,781	1,779	1,778	1,779	1,780	1,782
Colorado .....	133	134	135	135	135	135	134
Florida .....	123	123	123	122	122	122	123
Idaho .....	579	580	579	577	578	580	580
Illinois .....	98	98	98	98	98	98	98
Indiana .....	176	176	174	172	174	174	175
Iowa .....	205	206	203	203	205	205	205
Kansas .....	125	126	126	127	128	131	126
Michigan .....	376	376	374	374	375	377	375
Minnesota .....	465	465	465	465	465	465	465
Missouri .....	94	94	93	93	93	93	94
New Mexico .....	328	328	326	324	323	321	330
New York .....	610	610	610	610	610	610	610
Ohio .....	269	269	270	270	270	270	270
Oregon .....	123	123	123	123	123	123	123
Pennsylvania .....	534	533	533	533	533	534	536
Texas .....	440	437	433	430	430	433	436
Utah .....	91	91	91	91	91	90	91
Vermont .....	133	133	133	133	134	134	133
Virginia .....	96	96	95	95	95	95	96
Washington .....	261	261	261	261	262	264	262
Wisconsin .....	1,271	1,271	1,271	1,271	1,271	1,270	1,270
23-State Total .....	8,495	8,495	8,476	8,468	8,479	8,492	8,500
United States <sup>2</sup> .....	9,224	9,220	9,198	9,190	9,202	9,216	9,233

<sup>1</sup> Average based on monthly totals.

<sup>2</sup> United States monthly estimates are derived by proportionally allocating the quarterly estimates using the 23-state monthly total.

## Milk Cows by Month – 23 Selected States, 23 State Total, and United States: 2013

[Includes dry cows, excludes heifers not yet fresh]

State	January	February	March <sup>3</sup>	April <sup>3</sup>	May <sup>3</sup>	June <sup>3</sup>
	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)
Arizona .....	190	190				
California .....	1,780	1,780				
Colorado .....	135	135				
Florida .....	122	122				
Idaho .....	579	577				
Illinois .....	97	97				
Indiana .....	175	174				
Iowa .....	206	208				
Kansas .....	132	132				
Michigan .....	378	378				
Minnesota .....	465	465				
Missouri .....	93	93				
New Mexico .....	320	322				
New York .....	610	610				
Ohio .....	271	271				
Oregon .....	123	123				
Pennsylvania .....	535	534				
Texas .....	435	435				
Utah .....	90	91				
Vermont .....	134	134				
Virginia .....	94	94				
Washington .....	264	264				
Wisconsin .....	1,270	1,270				
23-State total .....	8,498	8,499				
United States <sup>2</sup> .....	9,222	9,223				

See footnote(s) at end of table.

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	July	August	September	October	November	December	Annual average <sup>1</sup>
Arizona .....	188	188	188	190	190	191	190
California .....	1,780	1,780	1,781	1,780	1,780	1,781	1,780
Colorado .....	137	137	137	137	138	140	137
Florida .....	123	123	123	123	123	123	123
Idaho .....	574	573	571	569	567	565	573
Illinois .....	97	97	97	97	96	96	97
Indiana .....	177	177	177	178	178	178	176
Iowa .....	210	208	206	206	206	206	208
Kansas .....	136	135	134	135	135	136	134
Michigan .....	381	381	381	380	380	380	380
Minnesota .....	465	465	463	463	461	460	464
Missouri .....	93	93	91	90	90	90	92
New Mexico .....	324	324	322	322	322	323	323
New York .....	610	610	610	610	611	613	610
Ohio .....	271	271	270	269	268	267	270
Oregon .....	123	123	123	123	123	124	123
Pennsylvania .....	534	533	532	530	530	530	533
Texas .....	435	440	440	440	440	440	437
Utah .....	92	92	92	93	93	94	92
Vermont .....	135	135	133	132	132	132	134
Virginia .....	95	95	95	94	94	94	95
Washington .....	268	268	266	266	266	266	266
Wisconsin .....	1,272	1,272	1,272	1,272	1,271	1,270	1,271
23-State total .....	8,520	8,520	8,504	8,499	8,494	8,499	8,506
United States <sup>2</sup> .....	9,235	9,229	9,208	9,203	9,198	9,202	9,221

<sup>1</sup> Average based on monthly totals.

<sup>2</sup> United States monthly estimates are derived by proportionally allocating the quarterly estimates using the 23-state monthly total.

<sup>3</sup> Survey was not conducted in April and July resulting in no milk cow data for March through June.

# Milk Produced per Cow by Month – 23 Selected States, 23 State Total, and United States: 2012

[Excludes milk sucked by calves]

State	January	February	March	April	May	June
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)
Arizona .....	2,100	2,060	2,240	2,155	2,155	2,010
California .....	2,030	1,965	2,130	2,035	2,100	1,975
Colorado .....	1,970	1,865	2,045	2,030	2,105	2,015
Florida .....	1,780	1,720	1,865	1,805	1,770	1,625
Idaho .....	1,920	1,800	1,940	1,910	2,020	1,990
Illinois .....	1,710	1,630	1,770	1,730	1,710	1,590
Indiana .....	1,800	1,740	1,875	1,860	1,875	1,760
Iowa .....	1,895	1,775	1,910	1,870	1,875	1,790
Kansas .....	1,800	1,725	1,910	1,860	1,890	1,790
Michigan .....	2,015	1,910	2,070	2,035	2,070	1,995
Minnesota .....	1,660	1,580	1,705	1,655	1,670	1,600
Missouri .....	1,270	1,215	1,445	1,455	1,390	1,265
New Mexico .....	2,045	1,985	2,190	2,130	2,150	2,020
New York .....	1,800	1,730	1,865	1,825	1,890	1,800
Ohio .....	1,655	1,610	1,740	1,730	1,735	1,630
Oregon .....	1,685	1,600	1,750	1,725	1,810	1,740
Pennsylvania .....	1,660	1,570	1,710	1,680	1,705	1,605
Texas .....	1,900	1,835	1,995	1,915	1,925	1,785
Utah .....	1,855	1,745	1,880	1,845	1,925	1,880
Vermont .....	1,625	1,535	1,660	1,625	1,675	1,610
Virginia .....	1,575	1,510	1,645	1,595	1,575	1,460
Washington .....	1,995	1,895	2,040	2,000	2,075	2,000
Wisconsin .....	1,790	1,700	1,835	1,800	1,840	1,780
23-State total .....	1,862	1,783	1,933	1,882	1,924	1,830
United States <sup>1</sup> .....	1,844	1,764	1,913	1,860	1,903	1,807

See footnote(s) at end of table.

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	July	August	September	October	November	December	Annual average
Arizona .....	1,915	1,770	1,745	1,875	1,890	1,995	23,979
California .....	1,965	1,855	1,790	1,860	1,835	1,920	23,457
Colorado .....	2,050	2,050	1,955	2,015	1,940	2,020	23,978
Florida .....	1,520	1,410	1,250	1,310	1,460	1,580	19,024
Idaho .....	2,050	2,040	1,930	1,970	1,890	1,930	23,376
Illinois .....	1,520	1,550	1,470	1,570	1,570	1,690	19,541
Indiana .....	1,710	1,780	1,685	1,735	1,730	1,850	21,406
Iowa .....	1,745	1,805	1,745	1,830	1,810	1,935	22,010
Kansas .....	1,775	1,795	1,740	1,805	1,770	1,845	21,683
Michigan .....	1,985	2,015	1,930	1,985	1,945	2,025	23,976
Minnesota .....	1,580	1,620	1,550	1,605	1,590	1,695	19,512
Missouri .....	1,170	1,120	1,110	1,180	1,180	1,230	14,957
New Mexico .....	2,060	2,015	1,960	2,025	2,000	2,100	24,694
New York .....	1,825	1,810	1,740	1,775	1,735	1,830	21,623
Ohio .....	1,595	1,620	1,540	1,650	1,610	1,710	19,833
Oregon .....	1,770	1,740	1,665	1,685	1,600	1,660	20,431
Pennsylvania .....	1,610	1,615	1,535	1,610	1,580	1,675	19,549
Texas .....	1,770	1,750	1,705	1,795	1,770	1,855	22,009
Utah .....	1,945	1,900	1,815	1,855	1,815	1,900	22,341
Vermont .....	1,640	1,610	1,550	1,595	1,545	1,630	19,316
Virginia .....	1,425	1,440	1,380	1,465	1,445	1,545	17,990
Washington .....	2,015	2,005	1,935	1,960	1,880	1,950	23,794
Wisconsin .....	1,775	1,820	1,730	1,775	1,745	1,850	21,436
23-State total .....	1,826	1,806	1,731	1,793	1,762	1,852	21,984
United States <sup>1</sup> .....	1,800	1,781	1,707	1,771	1,740	1,829	21,720

<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: 2013

[Excludes milk sucked by calves]

State	January	February	March <sup>2</sup>	April <sup>2</sup>	May <sup>2</sup>	June <sup>2</sup>	
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	
Arizona .....	2,075	1,940					
California .....	1,945	1,815					
Colorado .....	2,040	1,865					
Florida .....	1,730	1,670					
Idaho .....	1,910	1,740					
Illinois .....	1,730	1,590					
Indiana .....	1,850	1,710					
Iowa .....	1,940	1,750					
Kansas .....	1,855	1,705					
Michigan .....	2,060	1,880					
Minnesota .....	1,715	1,565					
Missouri .....	1,220	1,160					
New Mexico .....	2,150	1,985					
New York .....	1,855	1,695					
Ohio .....	1,725	1,590					
Oregon .....	1,675	1,555					
Pennsylvania .....	1,690	1,560					
Texas .....	1,880	1,740					
Utah .....	1,865	1,660					
Vermont .....	1,650	1,505					
Virginia .....	1,600	1,460					
Washington .....	1,985	1,825					
Wisconsin .....	1,870	1,705					
23-State total .....	1,874	1,726					
United States <sup>1</sup> .....	1,855	1,709					
	July	August	September	October	November	December	Annual average
Arizona .....	1,845	1,830	1,720	1,880	1,860	1,985	23,626
California .....	1,895	1,910	1,795	1,875	1,840	1,950	23,178
Colorado .....	2,100	2,095	1,965	2,030	1,975	2,055	24,248
Florida .....	1,630	1,450	1,325	1,400	1,495	1,600	19,374
Idaho .....	2,045	2,060	1,925	1,950	1,885	1,960	23,440
Illinois .....	1,550	1,550	1,475	1,570	1,550	1,630	19,371
Indiana .....	1,785	1,810	1,710	1,790	1,730	1,820	21,761
Iowa .....	1,835	1,850	1,735	1,820	1,775	1,870	22,144
Kansas .....	1,820	1,790	1,710	1,835	1,800	1,845	21,881
Michigan .....	2,010	2,050	1,940	2,000	1,930	2,020	24,116
Minnesota .....	1,645	1,635	1,565	1,610	1,565	1,665	19,698
Missouri .....	1,175	1,140	1,110	1,190	1,160	1,190	14,663
New Mexico .....	2,125	2,015	1,940	2,025	1,990	2,050	24,944
New York .....	1,860	1,885	1,770	1,840	1,750	1,820	22,080
Ohio .....	1,650	1,680	1,575	1,650	1,600	1,680	20,178
Oregon .....	1,765	1,750	1,650	1,690	1,625	1,675	20,439
Pennsylvania .....	1,630	1,660	1,570	1,620	1,585	1,675	19,822
Texas .....	1,885	1,795	1,700	1,820	1,770	1,820	21,984
Utah .....	1,915	1,915	1,815	1,840	1,775	1,820	22,130
Vermont .....	1,620	1,630	1,560	1,620	1,570	1,650	19,448
Virginia .....	1,480	1,490	1,430	1,510	1,490	1,600	18,337
Washington .....	2,040	2,040	1,930	1,975	1,885	1,955	23,820
Wisconsin .....	1,820	1,835	1,745	1,795	1,725	1,805	21,693
23-State total .....	1,842	1,843	1,741	1,810	1,759	1,844	22,069
United States <sup>1</sup> .....	1,818	1,819	1,719	1,790	1,740	1,825	21,822

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

<sup>2</sup> Survey was not conducted in April and July resulting in no milk per cow data for March through June.

# Milk Production by Month – 23 Selected States, 23 State Total, and United States: 2012

[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 .....	399	396	435	418	418	378	
California .....	3,617	3,506	3,804	3,632	3,744	3,523	
Colorado .....	262	248	270	268	278	268	
Florida .....	217	210	228	222	218	200	
Idaho .....	1,116	1,046	1,127	1,108	1,172	1,154	
Illinois .....	169	160	173	170	168	156	
Indiana .....	315	306	330	327	330	310	
Iowa .....	388	366	395	387	386	367	
Kansas .....	221	214	239	233	236	224	
Michigan .....	752	716	776	763	776	748	
Minnesota .....	772	735	793	770	777	744	
Missouri .....	118	113	136	137	131	119	
New Mexico .....	685	665	736	718	722	671	
New York .....	1,098	1,055	1,138	1,113	1,153	1,098	
Ohio .....	447	435	470	469	470	440	
Oregon .....	207	197	215	212	223	214	
Pennsylvania .....	896	849	923	904	914	859	
Texas .....	827	800	876	843	847	785	
Utah .....	169	159	171	168	175	171	
Vermont .....	216	204	221	216	223	214	
Virginia .....	151	145	158	153	151	140	
Washington .....	525	498	537	528	550	522	
Wisconsin .....	2,264	2,152	2,329	2,286	2,339	2,262	
23-State total .....	15,831	15,175	16,480	16,045	16,401	15,567	
United States <sup>2</sup> .....	17,038	16,332	17,735	17,246	17,618	16,698	
	July	August	September	October	November	December	Annual total <sup>1</sup>
Arizona .....	354	326	316	343	350	375	4,508
California .....	3,498	3,304	3,184	3,307	3,264	3,418	41,801
Colorado .....	273	275	264	272	262	273	3,213
Florida .....	187	173	154	160	178	193	2,340
Idaho .....	1,187	1,183	1,117	1,137	1,092	1,119	13,558
Illinois .....	149	152	144	154	154	166	1,915
Indiana .....	301	313	293	298	301	322	3,746
Iowa .....	358	372	354	371	371	397	4,512
Kansas .....	222	226	219	229	227	242	2,732
Michigan .....	746	758	722	742	729	763	8,991
Minnesota .....	735	753	721	746	739	788	9,073
Missouri .....	110	105	103	110	110	114	1,406
New Mexico .....	676	661	639	656	646	674	8,149
New York .....	1,113	1,104	1,061	1,083	1,058	1,116	13,190
Ohio .....	429	436	416	446	435	462	5,355
Oregon .....	218	214	205	207	197	204	2,513
Pennsylvania .....	860	861	818	858	842	894	10,478
Texas .....	779	765	738	772	761	803	9,596
Utah .....	177	173	165	169	165	171	2,033
Vermont .....	218	214	206	212	207	218	2,569
Virginia .....	137	138	131	139	137	147	1,727
Washington .....	526	523	505	512	493	515	6,234
Wisconsin .....	2,256	2,313	2,199	2,256	2,218	2,350	27,224
23-State total .....	15,509	15,342	14,674	15,179	14,936	15,724	186,863
United States <sup>2</sup> .....	16,601	16,421	15,705	16,273	16,013	16,857	200,537

<sup>1</sup> Total milk production for year.

<sup>2</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: 2013

[[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 .....	394	369	423	411	411	378	
California .....	3,462	3,231	3,676	3,622	3,720	3,489	
Colorado .....	275	252	279	271	283	279	
Florida .....	211	204	227	220	225	202	
Idaho .....	1,106	1,004	1,131	1,117	1,178	1,156	
Illinois .....	168	154	171	166	167	153	
Indiana .....	324	298	331	328	340	319	
Iowa .....	400	364	407	394	405	383	
Kansas .....	245	225	252	247	258	244	
Michigan .....	779	711	794	765	798	770	
Minnesota .....	797	728	811	774	788	760	
Missouri .....	113	108	125	128	127	114	
New Mexico .....	688	639	715	700	714	679	
New York .....	1,132	1,034	1,159	1,132	1,193	1,147	
Ohio .....	467	431	481	473	489	458	
Oregon .....	206	191	216	213	222	215	
Pennsylvania .....	904	833	926	904	941	880	
Texas .....	818	757	840	816	840	800	
Utah .....	168	151	171	170	177	173	
Vermont .....	221	202	226	220	231	221	
Virginia .....	150	137	153	153	155	143	
Washington .....	524	482	541	537	558	541	
Wisconsin .....	2,375	2,165	2,400	2,309	2,385	2,302	
23-State total .....	15,927	14,670	16,455	16,070	16,605	15,806	
United States <sup>2</sup> .....	17,109	15,759	17,677	17,249	17,813	16,935	
	July	August	September	October	November	December	Annual total <sup>1</sup>
Arizona .....	347	344	323	357	353	379	4,489
California .....	3,373	3,400	3,197	3,338	3,275	3,473	41,256
Colorado .....	288	287	269	278	273	288	3,322
Florida .....	200	178	163	172	184	197	2,383
Idaho .....	1,174	1,180	1,099	1,110	1,069	1,107	13,431
Illinois .....	150	150	143	152	149	156	1,879
Indiana .....	316	320	303	319	308	324	3,830
Iowa .....	385	385	357	375	366	385	4,606
Kansas .....	248	242	229	248	243	251	2,932
Michigan .....	766	781	739	760	733	768	9,164
Minnesota .....	765	760	725	745	721	766	9,140
Missouri .....	109	106	101	107	104	107	1,349
New Mexico .....	689	653	625	652	641	662	8,057
New York .....	1,135	1,150	1,080	1,122	1,069	1,116	13,469
Ohio .....	447	455	425	444	429	449	5,448
Oregon .....	217	215	203	208	200	208	2,514
Pennsylvania .....	870	885	835	859	840	888	10,565
Texas .....	820	790	748	801	779	801	9,610
Utah .....	176	176	167	171	165	171	2,036
Vermont .....	219	220	207	214	207	218	2,606
Virginia .....	141	142	136	142	140	150	1,742
Washington .....	547	547	513	525	501	520	6,336
Wisconsin .....	2,315	2,334	2,220	2,283	2,192	2,292	27,572
23-State total .....	15,697	15,700	14,807	15,382	14,941	15,676	187,736
United States <sup>2</sup> .....	16,788	16,789	15,831	16,475	16,003	16,790	201,218

<sup>1</sup> Total milk production for year.

<sup>2</sup> United States monthly estimates are derived by proportionally allocating the quarterly estimates using the 23-state monthly total.

# Milk Cows and Production by Quarter – States and United States: 2012

[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 .....	10.0	10.0	9.5	9.0	39.0	37.0	27.0	29.0
Alaska .....	0.5	0.4	0.4	0.4	1.7	1.4	1.4	1.2
Arizona .....	192.0	192.0	183.0	185.0	1,230.0	1,214.0	996.0	1,068.0
Arkansas .....	11.0	11.0	10.0	9.5	39.0	38.0	28.0	28.0
California .....	1,784.0	1,784.0	1,780.0	1,779.0	10,927.0	10,899.0	9,986.0	9,989.0
Colorado .....	133.0	132.0	134.0	135.0	780.0	814.0	812.0	807.0
Connecticut .....	18.5	18.5	18.0	18.0	93.0	93.0	86.0	86.0
Delaware .....	5.0	5.0	5.0	4.7	25.0	24.8	22.0	22.0
Florida .....	122.0	123.0	123.0	122.0	655.0	640.0	514.0	531.0
Georgia .....	80.0	80.0	80.0	80.0	424.0	409.0	338.0	359.0
Hawaii .....	1.9	2.0	2.0	2.1	7.2	7.6	7.0	6.6
Idaho .....	581.0	580.0	579.0	578.0	3,289.0	3,434.0	3,487.0	3,348.0
Illinois .....	98.0	98.0	98.0	98.0	502.0	494.0	445.0	474.0
Indiana .....	176.0	176.0	175.0	173.0	951.0	967.0	907.0	921.0
Iowa .....	206.0	206.0	205.0	204.0	1,149.0	1,140.0	1,084.0	1,139.0
Kansas .....	124.0	125.0	126.0	129.0	674.0	693.0	667.0	698.0
Kentucky .....	75.0	74.0	73.0	73.0	306.0	294.0	251.0	269.0
Louisiana .....	18.0	18.0	17.0	16.0	68.0	60.0	45.0	49.0
Maine .....	33.0	33.0	32.0	32.0	153.0	158.0	152.0	150.0
Maryland .....	52.0	51.0	51.0	51.0	255.0	252.0	233.0	239.0
Massachusetts .....	12.0	12.0	12.0	12.5	55.0	56.0	53.0	55.0
Michigan .....	374.0	375.0	375.0	375.0	2,244.0	2,287.0	2,226.0	2,234.0
Minnesota .....	465.0	465.0	465.0	465.0	2,300.0	2,291.0	2,209.0	2,273.0
Mississippi .....	14.5	14.0	14.0	14.0	58.0	54.0	41.0	46.0
Missouri .....	93.0	94.0	94.0	93.0	367.0	387.0	318.0	334.0
Montana .....	14.0	14.0	14.0	14.0	74.0	76.0	75.0	74.0
Nebraska .....	56.0	56.0	56.0	55.0	300.0	300.0	289.0	297.0
Nevada .....	29.0	29.0	28.0	29.0	167.0	173.0	167.0	159.0
New Hampshire .....	14.0	14.0	13.5	13.5	71.0	72.0	67.0	65.0
New Jersey .....	7.5	7.5	7.0	7.0	34.0	35.0	31.0	30.0
New Mexico .....	335.0	335.0	327.0	323.0	2,086.0	2,111.0	1,976.0	1,976.0
New York .....	610.0	610.0	610.0	610.0	3,291.0	3,364.0	3,278.0	3,257.0
North Carolina .....	46.0	46.0	46.0	46.0	252.0	246.0	216.0	226.0
North Dakota .....	18.0	18.0	18.0	18.0	86.0	88.0	86.0	87.0
Ohio .....	270.0	271.0	269.0	270.0	1,352.0	1,379.0	1,281.0	1,343.0
Oklahoma .....	51.0	49.0	47.0	46.0	241.0	219.0	188.0	201.0
Oregon .....	123.0	123.0	123.0	123.0	619.0	649.0	637.0	608.0
Pennsylvania .....	540.0	536.0	533.0	533.0	2,668.0	2,677.0	2,539.0	2,594.0
Rhode Island .....	1.1	1.0	0.9	0.9	4.9	5.0	4.3	4.1
South Carolina .....	16.0	15.5	15.0	15.5	81.0	74.0	57.0	64.0
South Dakota .....	92.0	93.0	92.0	92.0	492.0	494.0	485.0	497.0
Tennessee .....	51.0	50.0	49.0	49.0	222.0	210.0	182.0	191.0
Texas .....	437.0	440.0	437.0	431.0	2,503.0	2,475.0	2,282.0	2,336.0
Utah .....	91.0	91.0	91.0	91.0	499.0	514.0	515.0	505.0
Vermont .....	133.0	133.0	133.0	134.0	641.0	653.0	638.0	637.0
Virginia .....	96.0	96.0	96.0	95.0	454.0	444.0	406.0	423.0
Washington .....	263.0	263.0	261.0	262.0	1,560.0	1,600.0	1,554.0	1,520.0
West Virginia .....	10.0	10.0	10.0	10.0	40.0	41.0	39.0	38.0
Wisconsin .....	1,267.0	1,271.0	1,271.0	1,271.0	6,745.0	6,887.0	6,768.0	6,824.0
Wyoming .....	6.0	6.0	6.0	6.0	29.8	31.3	31.3	31.5
United States .....	9,256.0	9,257.0	9,214.0	9,203.0	51,105.0	51,562.0	48,727.0	49,143.0

<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: 2013

[[May not add due to rounding]]

State	Milk cows <sup>1</sup>				Milk production <sup>2</sup>			
	Jan-Mar <sup>3</sup>	Apr-Jun <sup>3</sup>	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 .....			9.0	9.0	33.0	34.0	25.0	28.0
Alaska .....			0.3	0.3	0.8	0.8	0.8	0.8
Arizona .....			188.0	190.0	1,186.0	1,200.0	1,014.0	1,089.0
Arkansas .....			8.0	8.0	31.0	30.0	22.0	22.0
California .....			1,780.0	1,780.0	10,369.0	10,831.0	9,970.0	10,086.0
Colorado .....			137.0	138.0	806.0	833.0	844.0	839.0
Connecticut .....			18.0	18.0	92.0	98.0	91.0	90.0
Delaware .....			4.7	4.7	24.7	24.7	21.6	22.7
Florida .....			123.0	123.0	642.0	647.0	541.0	553.0
Georgia .....			80.0	80.0	414.0	421.0	357.0	368.0
Hawaii .....			2.2	2.2	7.0	7.9	7.4	7.2
Idaho .....			573.0	567.0	3,241.0	3,451.0	3,453.0	3,286.0
Illinois .....			97.0	96.0	493.0	486.0	443.0	457.0
Indiana .....			177.0	178.0	953.0	987.0	939.0	951.0
Iowa .....			208.0	206.0	1,171.0	1,182.0	1,127.0	1,126.0
Kansas .....			135.0	135.0	722.0	749.0	719.0	742.0
Kentucky .....			70.0	69.0	292.0	284.0	243.0	257.0
Louisiana .....			15.0	15.0	60.0	58.0	42.0	46.0
Maine .....			31.0	30.0	151.0	157.0	152.0	146.0
Maryland .....			50.0	50.0	250.0	249.0	232.0	241.0
Massachusetts .....			12.5	12.0	59.0	61.0	56.0	54.0
Michigan .....			381.0	380.0	2,284.0	2,333.0	2,286.0	2,261.0
Minnesota .....			464.0	461.0	2,336.0	2,322.0	2,250.0	2,232.0
Mississippi .....			13.0	13.0	52.0	51.0	39.0	43.0
Missouri .....			92.0	90.0	346.0	369.0	316.0	318.0
Montana .....			14.0	14.0	73.0	76.0	74.0	75.0
Nebraska .....			54.0	53.0	298.0	299.0	283.0	285.0
Nevada .....			29.0	29.0	157.0	165.0	161.0	161.0
New Hampshire .....			13.0	13.5	69.0	68.0	67.0	67.0
New Jersey .....			7.0	7.0	32.0	33.0	31.0	31.0
New Mexico .....			323.0	322.0	2,042.0	2,093.0	1,967.0	1,955.0
New York .....			610.0	611.0	3,325.0	3,472.0	3,365.0	3,307.0
North Carolina .....			46.0	45.0	244.0	245.0	219.0	227.0
North Dakota .....			17.5	17.0	88.0	89.0	84.0	81.0
Ohio .....			271.0	268.0	1,379.0	1,420.0	1,327.0	1,322.0
Oklahoma .....			43.0	44.0	217.0	210.0	172.0	191.0
Oregon .....			123.0	123.0	613.0	650.0	635.0	616.0
Pennsylvania .....			533.0	530.0	2,663.0	2,725.0	2,590.0	2,587.0
Rhode Island .....			0.9	0.9	4.2	4.7	4.2	4.0
South Carolina .....			15.0	15.5	72.0	72.0	57.0	63.0
South Dakota .....			95.0	95.0	495.0	501.0	516.0	511.0
Tennessee .....			47.0	47.0	206.0	203.0	176.0	182.0
Texas .....			438.0	440.0	2,415.0	2,456.0	2,358.0	2,381.0
Utah .....			92.0	93.0	490.0	520.0	519.0	507.0
Vermont .....			134.0	132.0	649.0	672.0	646.0	639.0
Virginia .....			95.0	94.0	440.0	451.0	419.0	432.0
Washington .....			267.0	266.0	1,547.0	1,636.0	1,607.0	1,546.0
West Virginia .....			9.5	9.0	39.0	41.0	38.0	34.0
Wisconsin .....			1,272.0	1,271.0	6,940.0	6,996.0	6,869.0	6,767.0
Wyoming .....			6.0	6.0	32.0	32.7	32.5	31.0
United States .....			9,224.0	9,201.0	50,545.0	51,997.0	49,408.0	49,268.0

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

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

<sup>3</sup> Survey was not conducted in April and July resulting in no milk cow data for March through June.

## Licensed Dairy Herds – States and United States: 2012 and 2013

	Licensed dairy herds <sup>1</sup>	
	2012 (number)	2013 (number)
Alabama .....	50	45
Alaska .....	4	3
Arizona .....	110	110
Arkansas .....	100	85
California .....	1,605	1,515
Colorado .....	130	130
Connecticut .....	130	130
Delaware .....	50	40
Florida .....	130	130
Georgia .....	250	240
Hawaii .....	2	2
Idaho .....	565	550
Illinois .....	760	745
Indiana .....	1,570	1,315
Iowa .....	1,580	1,425
Kansas .....	340	325
Kentucky .....	840	780
Louisiana .....	140	130
Maine .....	310	300
Maryland .....	500	470
Massachusetts .....	155	155
Michigan .....	2,130	2,030
Minnesota .....	4,125	3,865
Mississippi .....	110	100
Missouri .....	1,430	1,290
Montana .....	70	70
Nebraska .....	210	200
Nevada .....	20	20
New Hampshire .....	120	120
New Jersey .....	80	70
New Mexico .....	140	140
New York .....	5,150	5,030
North Carolina .....	270	250
North Dakota .....	130	110
Ohio .....	3,060	2,930
Oklahoma .....	200	180
Oregon .....	270	260
Pennsylvania .....	7,140	7,200
Rhode Island .....	15	15
South Carolina .....	80	75
South Dakota .....	325	300
Tennessee .....	420	390
Texas .....	500	460
Utah .....	230	220
Vermont .....	970	930
Virginia .....	680	640
Washington .....	480	480
West Virginia .....	95	80
Wisconsin .....	11,490	10,860
Wyoming .....	20	20
United States .....	49,281	46,960

<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. Indications of milk cow inventory are also obtained in the January Cattle Surveys.

**Estimation Procedures:** State 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 16.1 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	26	3	80	17	7
All Milk cows .....	0.1	0.1	4	0	10	9	13

## 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)

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Donnie Fike – Dairy Products .....	(202) 690-3236
Tiffany Hora – Livestock Slaughter .....	(515) 284-4340
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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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