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# milk production

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## November Milk Production Up 1.5 Percent

U. S. milk production in November is estimated at 8,975 million pounds, 1.5 percent more than a year earlier. Daily average production was down 1 percent from October, the same decrease as a year ago. November output provided 1.44 pounds of milk per person daily for all uses, slightly more than the 1.43 pounds in November last year but less than the October supply of 1.45 pounds. Production for the first 11 months of 1971 was 1 percent more than the same period a year ago.

Milk production was unchanged or higher than last year in most States of the North and South Atlantic, East North Central, and Western regions. In the West North Central and South Central regions, production changes from a year ago varied. Of the 5 leading milk producing States, production was above last year in New York, Pennsylvania, Wisconsin, and California but below in Minnesota.

## Rate Per Cow Up 2 Percent From A Year Ago, Milk Cows Down 1 Percent

Milk output per cow averaged 726 pounds in November, up 2 percent from a year earlier. Daily production per cow averaged 24.2 pounds, about 1 percent less than October -- the same decline between these 2 months as in 1970. Production per cow, record large in 38 States, was highest in Arizona, 980 pounds, followed by: California, 955 pounds; Washington, 880 pounds; Connecticut, 865 pounds; and Hawaii, 840 pounds.

Milk cows on farms during November totaled 12,357,000, down 1 percent from last year.

## Milk-feed Price Ratio 7 Percent More Than Last Year

The November milk-feed price ratio at 1.94 was 7 percent more than a year earlier. The U. S. average milk price increased 5¢ from 1970 while ration value declined 21¢ causing the increase in the ratio. The ratio showed a slight gain from October.

## Grain And Concentrate Feeding Up 3 Percent

Grain and concentrate fed on December 1 averaged 11.8 pounds per milk cow, up 3 percent from last year and a record high for the date. Feeding rates were above a year ago in 32 States. Thirty-three States averaged 11 or more pounds per milk cow on December 1 this year, compared with 26 States a year ago.

Special in this issue  
FORAGE FED TO MILK COWS --  
1971 SUMMER FEEDING SEASON

**UNITED STATES DEPARTMENT OF AGRICULTURE**

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Summer feeding of forage unchanged from 1970

Feeding of forage to milk cows in the 1971 summer season (June-September) averaged 1.24 tons of hay equivalent per cow, the same as a year earlier. In the five leading dairy States, summer forage feeding was up from last year in California, unchanged in Wisconsin and Pennsylvania, but down in Minnesota and New York. These feeding rates represent an average per milk cow on farms that fed some forage in the summer.

Hay fed in the U. S. averaged 0.54 ton per milk cow for the 1971 summer feeding season--slightly below the 0.58 ton fed during 1970. Silage feeding was up from a year earlier. Quantity fed during the summer totaled 1.35 tons per milk cow, compared with 1.17 tons the previous year. The quantity of green feed continued to drop slightly--from .85 ton in 1970 to .74 ton in 1971.

Alfalfa continues as leading hay

Alfalfa or alfalfa mixtures accounted for 84 percent of the hay fed during the 1971 summer, compared with 80 percent a year earlier. Alfalfa was the most important hay fed in all but a few New England, South Atlantic, and South Central States. Clover and clover mixtures represented 10 percent of all hay fed, unchanged from last year. Coastal Bermuda hay accounted for 1 percent of all U. S. hay fed and Lespedeza less than 1 percent. These two hays are most common in the South Atlantic and South Central regions. Five percent of the hay fed during the summer was classified as "other," down two points from 1970.

Corn silage most important

Corn silage accounted for 51 percent of all silage fed to milk cows during the summer season, 2 percentage points above a year earlier. Grass silage decreased by 2 points to 43 percent. Grass silage was predominant in nearly all States of the East North Central region, while corn silage predominated in most other States. Both sorghum and "other" silage made up the same share of the U. S. total as a year earlier--2 percent and 4 percent, respectively.

Milk cows and milk production by months, United States

Month	Milk cows on farms 1/			Milk per cow 2/			Milk production 2/			Change from 1970
	1969	1970	1971	1969	1970	1971	1969	1970	1971	
	Thousands			Pounds			Million pounds			Percent
January	12,819	12,570	12,437	734	752	768	9,415	9,448	9,547	+1.0
February	12,796	12,564	12,432	690	708	725	8,831	8,896	9,010	+1.3
March	12,766	12,553	12,422	785	807	822	10,025	10,126	10,209	+0.8
April	12,745	12,540	12,411	805	824	841	10,256	10,328	10,432	+1.0
May	12,720	12,523	12,405	871	887	904	11,073	11,109	11,217	+1.0
June	12,695	12,509	12,389	845	863	875	10,728	10,792	10,836	+0.4
July	12,674	12,501	12,382	801	818	833	10,149	10,226	10,311	+0.8
August	12,656	12,493	12,379	764	782	797	9,673	9,767	9,871	+1.1
September	12,628	12,479	12,368	725	743	758	9,158	9,273	9,376	+1.1
October	12,614	12,472	12,364	723	744	759	9,114	9,280	9,389	+1.2
November	12,594	12,460	12,357	690	710	726	8,687	8,842	8,975	+1.5
Jan.-Nov. total							107,109	108,087	109,173	+1.0
December	12,582	12,449		734	751		9,236	9,349		
Annual	12,693	12,509		9,166	9,388		116,345	117,436		

1/ Includes dry cows. Excludes heifers not yet fresh.

2/ Excludes milk sucked by calves.

## November milk cows and milk production

State	Milk cows on farms 1/			Milk per cow 2/			Milk production 2/			Change from 1970
	1969	1970	1971	1969	1970	1971	1969	1970	1971	
	Thousands	Thousands	Thousands	Pounds	Pounds	Pounds	Million pounds	Million pounds	Million pounds	
Maine	67	66	66	715	710	765	48	47	50	+ 6
New Hampshire	37	36	36	760	780	795	28	28	29	+ 4
Vermont	205	205	205	710	740	755	146	152	155	+ 2
Massachusetts	64	63	62	820	800	810	52	50	50	0
Rhode Island	7.8	7.2	6.8	795	770	775	6.2	5.5	5.3	- 4
Connecticut	66	63	62	825	845	865	54	53	54	+ 2
New York	1,030	1,018	1,005	760	765	790	783	779	794	+ 2
New Jersey	74	68	64	805	305	810	60	55	52	- 5
Pennsylvania	720	707	698	760	765	795	547	541	555	+ 3
Ohio	458	450	440	740	740	790	339	333	348	+ 5
Indiana	243	235	237	740	760	800	180	179	190	+ 6
Illinois	309	301	295	695	710	710	215	214	209	- 2
Michigan	470	463	474	760	770	810	357	357	384	+ 8
Wisconsin	1,846	1,846	1,856	690	715	715	1,274	1,320	1,327	+ 1
Minnesota	986	983	972	675	695	695	666	683	676	- 1
Iowa	513	488	467	670	690	700	344	337	327	- 3
Missouri	363	352	339	615	625	670	223	220	227	+ 3
North Dakota	145	138	132	455	475	450	66	66	59	-11
South Dakota	187	178	174	535	570	570	100	101	99	- 2
Nebraska	192	187	185	590	625	655	113	117	121	+ 3
Kansas	204	198	193	635	655	695	130	130	134	+ 3
Delaware	15	15	15	745	765	780	11.2	11.5	11.7	+ 2
Maryland	168	168	168	755	755	765	127	127	129	+ 2
Virginia	223	221	217	630	635	645	140	140	140	0
West Virginia	62	58	53	530	530	545	33	31	29	- 6
North Carolina	189	185	185	660	670	700	125	124	130	+ 5
South Carolina	67	65	65	600	630	620	40	41	40	- 2
Georgia	145	147	146	655	665	670	95	98	98	0
Florida	191	192	194	645	705	730	123	135	142	+ 5
Kentucky	349	342	335	499	525	540	174	180	181	+ 1
Tennessee	308	302	299	515	540	570	159	163	170	+ 4
Alabama	137	134	134	475	490	490	65	66	66	0
Mississippi	198	193	184	410	415	425	81	80	78	- 2
Arkansas	98	97	97	535	560	535	52	54	52	- 4
Louisiana	174	170	167	505	530	540	88	90	90	0
Oklahoma	150	146	143	665	680	675	100	99	97	- 2
Texas	353	355	355	680	695	725	240	247	257	+ 4
Montana	44	42	39	610	650	670	27	27	26	- 4
Idaho	154	159	162	675	705	740	104	112	120	+ 7
Wyoming	18.0	17.2	16.7	625	635	665	11.3	10.9	11.1	+ 2
Colorado	102	101	101	670	700	720	68	71	73	+ 3
New Mexico	36	35	35	695	685	685	25	24	24	0
Arizona	51	52	52	920	930	980	47	48	51	+ 6
Utah	76	81	82	800	815	810	61	66	66	0
Nevada	13.8	14.1	14.0	775	795	790	10.7	11.2	11.1	- 1
Washington	187	191	197	830	880	880	155	168	173	+ 3
Oregon	109	107	104	660	680	720	72	73	75	+ 3
California	775	804	814	915	950	955	709	764	777	+ 2
Alaska	1.7	1.7	1.7	805	765	705	1.37	1.30	1.20	- 8
Hawaii	13.1	13.0	13.0	840	860	840	11.0	11.2	10.9	- 3
United States	12,594	12,460	12,357	690	710	726	8,687	8,842	8,975	+ 1.5

1/ Includes dry cows. Excludes heifers not yet fresh.

2/ Excludes milk sucked by calves.

Milk-feed price ratios, milk prices, and ration values, by regions 1/

Region	Milk-feed price ratio 2/			All milk price per cwt.			Ration value 3/		
	Nov. 1970	Oct. 1971	Nov. 1971	Nov. 1970 4/	Oct. 1971	Nov. 1971	Nov. 1970	Oct. 1971	Nov. 1971
	Pounds			Dollars					
N. Atl.	1.72	1.82	1.81	6.73	6.77	6.74	3.91	3.71	3.73
E. N. Cent.	1.82	1.99	2.00	5.78	5.75	5.80	3.17	2.89	2.90
W. N. Cent.	1.85	2.05	2.05	5.33	5.26	5.30	2.88	2.56	2.59
S. Atl.	1.89	2.08	2.11	7.17	7.13	7.21	3.80	3.42	3.42
S. Cent.	1.89	1.98	2.02	6.70	6.61	6.73	3.55	3.34	3.33
West.	1.75	1.71	1.76	5.76	5.87	5.97	3.30	3.43	3.40
U. S.	1.81	1.93	1.94	6.09	6.09	6.14	3.37	3.15	3.16

1/ Data for current month are preliminary.

2/ Pounds of concentrate ration equal in value to 1 pound wholesale milk.

3/ Value per 100 pounds of concentrate ration fed to milk cows.

4/ Revised.

Grain and other concentrates fed daily per milk cow in herd kept by reporters, December 1, by States

State	1969	1970	1971	State	1969	1970	1971
Pounds			Pounds				
Maine	12.2	12.0	12.5	N. C.	10.3	10.0	11.0
N. H.	11.0	11.5	12.4	S. C.	11.4	12.4	13.9
Vt.	10.6	10.5	10.3	Ga.	12.0	13.5	13.6
Mass.	12.9	12.5	13.6	Fla.	11.0	12.0	12.0
R. I.	12.5	12.5	12.8				
Conn.	13.5	12.5	13.8	Ky.	8.3	10.0	9.4
N. Y.	11.6	11.6	11.4	Tenn.	9.2	9.5	10.0
N. J.	12.3	12.0	12.7	Ala.	11.0	10.0	8.0
Pa.	13.5	13.8	13.7	Miss.	11.0	10.0	12.0
				Ark.	10.2	10.7	11.3
Ohio	13.0	11.9	13.5	La.	10.8	12.3	13.0
Ind.	12.6	12.6	11.8	Okla.	12.6	12.7	12.1
Ill.	11.5	12.1	12.7	Texas	13.0	13.2	14.0
Mich.	10.8	11.5	11.7				
Wis.	10.2	10.5	11.2	Mont.	8.5	8.7	9.5
				Idaho	8.0	9.0	8.9
Minn.	10.9	11.6	12.6	Wyo.	7.5	6.5	9.0
Iowa	10.2	11.0	11.6	Colo.	9.7	9.0	11.5
Mo.	10.9	9.9	11.2	N. Mex.	10.5	13.0	14.0
N. Dak.	9.9	9.7	10.5	Ariz.	11.0	12.5	12.5
S. Dak.	8.9	10.2	9.4	Utah	9.3	8.4	9.5
Nebr.	8.0	9.7	9.5	Nev.	10.0	9.5	10.0
Kans.	11.4	13.4	12.5	Wash.	11.4	10.4	11.6
				Oreg.	8.9	10.0	10.1
Del.	13.4	13.5	14.8	Calif.	12.5	14.0	14.0
Md.	13.4	13.5	13.9				
Va.	10.7	10.9	8.5	U. S.	11.1	11.5	11.8
W. Va.	7.6	9.1	8.6				

Hay silage and green feed fed per milk cow in herds kept  
by dairy reporters, summer feeding season, 1970 and 1971 <sup>1/</sup>

State	Hay		Silage		Green feed 2/		Hay equiv. of all forage fed 3/	
	1970	1971	1970	1971	1970	1971	1970	1971
	Tons							
Me., N. H. & Vt.	.3	.3	.7	.6	.6	.6	.7	.7
Mass., R. I., & Conn.	.3	.4	1.1	1.0	.7	.6	.9	.9
N. Y.	.4	.3	1.3	1.3	.6	.5	1.0	.9
N. J.	.4	.4	1.6	1.4	1.9	2.0	1.6	1.5
Pa.	.7	.7	1.4	1.3	.7	.8	1.4	1.4
Ohio	.4	.4	1.7	1.5	.8	.5	1.2	1.1
Ind.	.5	.3	1.6	1.4	a/	a/	1.3	1.0
Ill.	.5	.3	1.9	1.6	.8	.6	1.4	1.0
Mich.	.5	.6	1.2	1.8	1.3	.8	1.3	1.5
Wis.	.3	.3	1.6	1.7	1.7	1.6	1.4	1.4
Minn.	.5	.4	.8	.7	.5	.5	.9	.8
Iowa	.4	.3	1.0	1.1	a/	a/	.9	.8
Mo.	.4	.6	.8	.9	a/	a/	.8	1.1
N. Dak.	.6	.4	a/	a/	a/	a/	1.1	.9
S. Dak.	.7	.4	a/	a/	a/	a/	1.4	.9
Nebr.	.4	.5	a/	a/	a/	a/	1.1	1.1
Kans.	.4	.3	a/	a/	a/	a/	.8	.6
Del. & Md.	.3	.3	1.7	1.5	1.2	1.1	1.3	1.2
Va.	.2	.2	2.2	1.9	.5	.4	1.1	1.0
W. Va.	.2	.2	a/	a/	a/	a/	.9	.9
N. C.	.2	.2	2.0	1.3	a/	a/	1.0	.8
S. C.	.3	.4	1.4	2.0	a/	a/	.9	1.2
Ga.	.5	.3	1.1	.9	a/	a/	1.0	.8
Fla.	a/	a/	a/	a/	a/	a/	a/	a/
Ky.	.4	.2	1.2	1.1	a/	a/	1.0	.7
Tenn.	.3	.2	.9	1.0	a/	a/	.8	.8
Ala.	.3	.4	1.2	1.0	a/	a/	1.0	.8
Miss.	.3	.2	a/	a/	a/	a/	.9	.7
Ark.	.4	.2	a/	a/	a/	a/	.8	.6
La.	.2	.3	a/	a/	a/	a/	.7	.7
Okla.	.7	.5	a/	a/	a/	a/	1.0	.7
Texas	.7	.7	a/	a/	a/	a/	1.0	.9
Mont.	1.1	1.2	a/	a/	a/	a/	1.5	1.5
Idaho	1.3	1.4	a/	a/	a/	a/	1.7	1.7
Wyo.	1.3	2.0	a/	a/	a/	a/	1.7	2.4
Colo.	1.2	1.3	a/	a/	a/	a/	1.6	1.8
N. Mex.	1.1	1.0	a/	a/	a/	a/	1.8	1.4
Ariz.	1.2	1.1	a/	a/	a/	a/	1.8	1.5
Utah	1.3	1.6	a/	a/	a/	a/	1.7	2.1
Nev.	1.4	1.7	a/	a/	a/	a/	1.9	2.2
Wash.	.8	.7	a/	a/	a/	a/	1.2	1.2
Oreg.	.6	.7	a/	a/	a/	a/	1.0	1.0
Calif.	1.9	2.0	a/	a/	a/	a/	2.2	2.3
U. S.	.58	.54	1.17	1.35	.85	.74	1.24	1.24

1/ Based on tonnage fed during the June-September summer feeding season as reported on November 1, divided by number of milk cows on farms where some kind of forage was fed.

2/ Legumes, grasses, small grains, corn, sorghum, etc. cut and fed green.

3/ Using 3 tons of silage or green feed as equivalent to 1 ton of hay. Does not include pasture or grazing of crop residues.

a/ Number of reports not sufficient to establish a stable average.

Hay: Percentage, by kinds, fed to milk cows in herds kept by dairy reporters, summer feeding season, 1970 and 1971 1/

State	Alfalfa or mixed alfalfa		Clover or mixed clover		Lespedeza		Coastal Bermuda		Other	
	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971
	Percent									
Me., N. H., Vt.	42	33	53	53					5	14
Mass., R. I., Conn.	52	48	39	45					9	7
N. Y.	56	65	36	29					8	6
N. J.	95	95	5	5						
Pa.	60	60	31	32					9	8
Ohio	68	80	18	17					14	3
Ind.	86	88	4	2					10	10
Ill.	95	87	5	8						5
Mich.	96	92	4	8						
Wis.	92	92	7	8					1	
Minn.	93	90	5	8					2	2
Iowa	94	90	6	10						
Mo.	73	91	8	7	5		1		13	2
N. Dak.	96	97							4	3
S. Dak.	94	97							6	3
Nebr.	98	95							2	5
Kans.	84	98							16	2
Del., Md.	78	70	22	29						1
Va.	56	63	26	21	1	2			17	14
W. Va.	35	50	45	25					20	25
N. C.	10	23	37	54	29	6	9	14	15	3
S. C.	1	1	2	1	1	2	55	50	41	46
Ga.	1	7				1	62	78	37	14
Fla.	a/	a/	a/	a/	a/	a/	a/	a/	a/	a/
Ky.	64	67	24	14	2	8			10	11
Tenn.	35	40	36	37	14	4			15	19
Ala.	10	10	2	1		1	46	40	42	48
Miss.	5	8	15	20	15	1	36	30	29	41
Ark.	31	24	6	5	7	4	11	8	45	59
La.	30	25	3	5	5	2	20	16	42	52
Okla.	81	95				1			19	4
Texas	57	67	1				10	9	32	24
Mont.	95	99		1					5	
Idaho	94	99	6	1						
Wyo.	100	100								
Colo.	100	100								
N. Mex.	100	99								1
Ariz.	100	100								
Utah	100	100								
Nev.	100	100								
Wash.	89	85	9	10					2	5
Oreg.	60	50	25	33					15	17
Calif.	93	97		1					7	2
U. S.	80	84	10	10	1		2	1	7	5

1/ For June-September summer feeding period as reported November 1.

a/ Number of reports not sufficient to establish a stable average.

Silage: Percentage, by kinds, fed to milk cows in herds kept by dairy reporters, summer feeding season, 1970 and 1971 1/

State and division	Corn silage		Grass silage		Sorghum silage		Other silage	
	1970	1971	1970	1971	1970	1971	1970	1971
	Percent							
Me., N. H., Vt.	60	63	33	34			7	3
Mass., R. I., Conn.	60	74	33	22			7	4
N. Y.	55	59	38	37			7	4
N. J.	50	55	47	41			3	4
Pa.	64	65	30	31			6	4
Ohio	33	30	58	67	3	1	6	2
Ind.	44	32	56	67		1		
Ill.	43	36	55	57	1	1	1	6
Mich.	28	47	72	43		1		9
Wis.	39	44	60	55			1	1
Minn.	61	42	39	50		5		3
Iowa	55	50	36	45		3	9	2
U. S.	49	51	45	43	2	2	4	4

1/ For June-September summer feeding season, as reported on November 1. Data are shown only for those States where the reported amount fed was sufficient to provide a stable breakdown by kinds.