

MILK PRODUCTION

December 12, 1967

November milk output 2 percent less than a year earlier

November milk production in the United States is estimated at 8,861 million pounds, 2 percent less than a year earlier and 5 percent below the 1961-65 average. Daily production was down 1 percent from October to November, compared with no change during this period both last year and for the 5-year average. November output provided 1.48 pounds of milk per person daily, compared with 1.49 pounds a month earlier and 1.52 pounds a year earlier. From January through November this year, milk production totalled about the same as a year earlier.

Milk production was below November 1966 in the North Central States and all New England States except in Maine -- up 2 percent, and New Hampshire and Vermont-- unchanged from a year earlier. In the South Atlantic, South Central, and Western Regions, the production pattern was mixed--10 States reported decreased production, 9 States reported no change, and 8 States reported increased production. In these three regions' changes from November 1966 ranged from decreases of 4 percent in Delaware and Idaho to an increase of 8 percent in New Mexico.

Table 1.--Milk per cow and milk production, by months, United States, 1967, with comparisons

Month	Milk per cow			Milk production			
	Average 1961-65	1966	1967	Average 1961-65	1966	1967	Change from 1966
	Pounds	Pounds	Pounds	Million Pounds	Million Pounds	Million Pounds	Percent
January	621	678	715	10,222	9,805	9,855	+0.5
February	591	635	670	9,696	9,137	9,217	+0.9
March	676	736	766	11,062	10,537	10,510	-0.3
April	690	752	785	11,260	10,725	10,732	+0.1
May	757	812	844	12,310	11,525	11,508	-0.1
June	729	798	821	11,816	11,269	11,146	-1.1
July	671	736	761	10,849	10,350	10,311	-0.4
August	629	696	722	10,148	9,763	9,757	-0.1
September	592	663	680	9,522	9,263	9,173	-1.0
October	602	670	684	9,643	9,333	9,209	-1.3
November	581	649	660	9,288	9,012	8,861	-1.7
Jan.-Nov. total	-	-	-	115,819	110,719	110,279	-0.4
December	618	687		9,841	9,511		
Annual	7,759	8,513		125,660	120,230		

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Table 2.--Monthly milk per cow and milk production,
November 1967, with comparisons

State	Monthly milk per cow 1/			Milk production			
	Nov. av. 1961-65	Nov. 1966	Nov. 1967	Nov. av. 1961-65	Nov. 1966	Nov. 1967	Change from 1966
	Pounds	Pounds	Pounds	Million pounds	Million pounds	Million pounds	Percent
Maine.....	623	650	685	52	46	47	+ 2
New Hampshire.....	650	725	740	31	29	29	0
Vermont.....	608	685	695	148	145	145	0
Massachusetts.....	734	810	805	63	59	57	- 3
Rhode Island.....	718	765	780	8.3	7.0	6.6	- 6
Connecticut.....	732	815	815	57	56	55	- 2
New York.....	670	715	720	808	777	773	- 1
New Jersey.....	739	790	790	85	75	68	- 9
Pennsylvania.....	646	720	690	545	544	504	- 7
Ohio.....	680	710	715	412	368	356	- 3
Indiana.....	664	715	720	241	209	194	- 7
Illinois.....	627	685	710	298	259	247	- 5
Michigan.....	709	745	750	435	393	380	- 3
Wisconsin.....	626	690	695	1,328	1,361	1,345	- 1
Minnesota.....	574	610	625	722	687	681	- 1
Iowa.....	573	620	620	444	399	389	- 3
Missouri.....	450	555	575	240	228	221	- 3
North Dakota.....	383	425	465	94	80	76	- 5
South Dakota.....	425	500	510	99	104	103	- 1
Nebraska.....	492	525	530	137	121	116	- 4
Kansas.....	539	615	625	147	137	133	- 3
Delaware.....	620	690	700	12.9	11.7	11.2	- 4
Maryland.....	618	700	710	122	125	122	- 2
Virginia.....	518	580	595	147	143	142	- 1
West Virginia.....	423	485	505	43	37	36	- 3
North Carolina.....	519	600	615	121	125	127	+ 2
South Carolina.....	475	540	560	43	41	41	0
Georgia.....	447	570	620	78	84	87	+ 4
Florida.....	617	660	700	111	119	126	+ 6
Kentucky.....	397	465	475	182	180	179	- 1
Tennessee.....	366	445	460	153	163	164	+ 1
Alabama.....	385	440	470	73	69	69	0
Mississippi.....	298	365	390	87	85	83	- 2
Arkansas.....	368	460	500	60	52	52	0
Louisiana.....	363	445	460	78	86	86	0
Oklahoma.....	523	625	650	107	102	103	+ 1
Texas.....	486	610	685	236	239	251	+ 5
Montana.....	477	510	550	30	27	27	0
Idaho.....	599	655	665	110	105	101	- 4
Wyoming.....	517	585	585	12.9	12.1	12.0	- 1
Colorado.....	603	660	670	66	65	65	0
New Mexico.....	567	630	655	22	24	26	+ 8
Arizona.....	803	850	865	41	44	44	0
Utah.....	693	750	780	58	57	58	+ 2
Nevada.....	688	775	770	9.8	10.3	10.3	0
Washington.....	698	755	750	148	151	146	- 3
Oregon.....	524	580	600	73	70	70	0
California.....	827	895	875	657	688	682	- 1
Alaska.....	666	770	755	1.68	1.46	1.36	- 7
Hawaii.....	757	795	920	11.1	11.6	13.5	+16
United States.....	581	649	660	9,288	9,012	8,861	-1.7

1/ Monthly rate based on all milk cows on farms (in milk or dry).

November rate per cow up 2 percent from a year earlier

During November, milk production per cow averaged 660 pounds, up 2 percent from a year earlier and 14 percent above the 1961-65 average. Production per cow was at a record level for the month in 42 States. Daily output per cow averaged 22.0 pounds in November, about the same as October and 0.4 pound above a year earlier.

Production of milk per cow during November was highest in Hawaii at 920 pounds. Following were California with 875 pounds; Arizona, 865 pounds; Connecticut, 815 pounds; and Massachusetts, 805 pounds.

Grain and concentrate feeding up 3 percent from last year

Feeding of grain and concentrates averaged 10.1 pounds per cow on December 1. This was an increase of 3 percent from the 9.8 pounds fed on the same date last year. The 1961-65 average for the date is 8.3 pounds. On December 1, feeding rates averaged 11 or more pounds per cow in 17 States compared with 15 States a year earlier.

Table 3.-Grain and other concentrates fed daily per milk cow in herds kept by reporters, December 1, 1967, with comparisons

State	Dec. 1, av. 1961-65	Dec. 1, 1966	Dec. 1, 1967	State	Dec. 1, av. 1961-65	Dec. 1, 1966	Dec. 1, 1967
	Lb.	Lb.	Lb.		Lb.	Lb.	Lb.
Maine	9.4	11.0	11.0	West Virginia ..	6.0	6.8	7.6
New Hampshire ..	9.3	11.0	11.0	North Carolina	8.7	9.6	9.8
Vermont	8.6	9.8	10.5	South Carolina	6.9	8.5	9.0
Massachusetts ..	9.8	12.5	11.5	Georgia	8.6	11.0	11.0
Rhode Island ...	10.6	12.5	11.5	Florida	6.7	7.5	10.0
Connecticut	10.3	12.7	12.2				
New York	9.6	10.5	10.9	Kentucky	7.2	8.0	8.7
New Jersey	10.8	11.3	11.6	Tennessee	6.8	7.7	7.3
Pennsylvania ...	11.0	12.5	12.4	Alabama	7.6	9.3	11.0
				Mississippi	5.0	7.5	9.0
Ohio	10.0	11.0	11.9	Arkansas	7.0	9.2	9.0
Indiana	9.2	11.0	11.7	Louisiana	6.5	9.7	10.1
Illinois	8.5	9.8	10.1	Oklahoma	8.3	10.3	11.0
Michigan	10.0	11.3	11.2	Texas	6.1	8.6	9.0
Wisconsin	8.2	9.2	9.2				
				Montana	5.2	6.5	6.7
Minnesota	8.8	10.1	10.4	Idaho	5.9	7.1	7.6
Iowa	8.2	8.9	9.0	Wyoming	5.3	6.0	5.1
Missouri	7.8	8.0	8.6	Colorado	7.4	9.9	10.2
North Dakota ...	7.7	9.1	9.2	New Mexico	7.2	11.0	11.0
South Dakota ...	6.0	6.8	8.0	Arizona	7.0	10.6	10.5
Nebraska	7.6	7.5	8.4	Utah	6.8	8.6	8.5
Kansas	8.1	9.8	9.8	Nevada	6.6	8.8	10.0
				Washington	8.0	9.7	9.8
Delaware	9.9	12.0	12.5	Oregon	5.9	6.5	8.0
Maryland	10.4	11.5	12.4	California	9.2	12.5	11.5
Virginia	9.0	10.0	10.4	United States ..	8.3	9.8	10.1

Milk-feed price ratio up 5 percent from a year earlier

The milk-feed price ratio for November was 1.75. This is 5 percent above a year earlier and 2 percent above a month earlier. The 1961-65 average milk-feed price ratio for November is 1.52. The milkfat-feed price ratio was 26.1 in November, compared with 25.5 a month earlier, 25.2 in November 1966 and the 5-year November average of 24.7.

Table 4.-Average milk price received by farmers and value of concentrate ration fed to milk cows, by regions, November 1967, with comparisons

Region	Milk price per 100 pounds				Ration value per 100 pounds			
	Nov. av. 1961-65	Nov. 1966	Oct. 1967	Nov. 1967	Nov. av. 1961-65	Nov. 1966	Oct. 1967	Nov. 1967
	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.
N. Atl.	5.16	5.87	5.99	5.94	3.57	3.83	3.65	3.64
E. N. Cent.	4.04	5.08	4.99	5.04	2.75	2.98	2.85	2.82
W. N. Cent.	3.69	4.59	4.44	4.45	2.39	2.70	2.50	2.44
S. Atl.	5.73	6.44	6.38	6.46	3.31	3.64	3.40	3.42
S. Cent.	5.11	6.08	5.93	6.05	3.08	3.32	3.26	3.24
West.	4.60	5.18	5.05	5.11	3.16	3.32	3.29	3.28
U. S.								
Milk areas	4.52	5.37	5.32	5.34	2.98	3.23	3.09	3.06
Cream areas	-	-	-	-	2.48	2.77	2.59	2.53
Milk and cream areas	-	-	-	-	2.95	3.22	3.08	3.05

Table 5.-Milk-feed and milkfat-feed price ratios, by regions, November 1967, with comparisons

Region	Milk-feed ratio 1/				Milkfat-feed ratio 2/			
	Nov. av. 1961-65	Nov. 1966	Oct. 1967	Nov. 1967	Nov. av. 1961-65	Nov. 1966	Oct. 1967	Nov. 1967
N. Atl.	1.45	1.53	1.64	1.63	-	-	-	-
E. N. Cent.	1.47	1.70	1.75	1.79	20.8	22.1	21.2	21.4
W. N. Cent.	1.55	1.70	1.78	1.82	26.1	26.4	27.0	27.7
S. Atl.	1.73	1.77	1.88	1.89	-	-	-	-
S. Cent.	1.66	1.83	1.82	1.87	17.4	18.4	16.7	16.6
West.	1.45	1.56	1.53	1.56	18.7	20.0	19.5	19.6
U. S.	1.52	1.66	1.72	1.75	24.7	25.2	25.5	26.1

1/ Pounds of concentrate ration equal in value to 1 pound of whole milk sold by farmers.

2/ Pounds of concentrate ration equal in value to 1 pound of milkfat in cream sold by farmers.

Table 6.-Hay, silage, and green feed fed per milk cow in herds kept by dairy reporters, summer feeding season, 1966 and 1967 ^{1/}

State and division	Hay		Silage		Green feed ^{2/}		Hay equiv. of all roughage fed ^{3/}	
	1966	1967	1966	1967	1966	1967	1966	1967
	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons
Me., N. H., Vt. ....	.3	.3	.6	.4	.6	.6	.7	.6
Mass., R. I., Conn. ....	.3	.3	.8	.9	.6	.6	.8	.8
N. Y. ....	.4	.3	.8	.9	.5	.7	.8	.8
N. J. ....	.5	.6	1.4	1.0	1.9	2.2	1.6	1.7
Pa. ....	.7	.6	1.1	1.0	.7	.8	1.3	1.2
N. Atl. ....	.49	.42	.90	.89	.65	.78	1.01	.98
Ohio ....	.3	.4	1.0	1.2	.5	.6	.8	1.0
Ind. ....	.3	.4	1.1	1.3	.2	.4	.7	1.0
Ill. ....	.4	.3	1.1	1.0	.8	.7	1.0	.9
Mich. ....	.4	.4	1.0	1.1	.8	1.2	1.0	1.2
Wis. ....	.3	.4	1.0	1.1	1.1	.9	1.0	1.1
E. N. Cent. ....	.32	.39	1.02	1.12	.87	.86	.95	1.05
Minn. ....	.4	.5	1.1	.7	.4	.3	.9	.8
Iowa ....	.3	.3	.7	.6	.4	.4	.7	.6
Mo. ....	.3	.3	@	@	@	@	.5	.6
N. Dak. ....	.3	.6	@	@	@	@	1.0	.9
S. Dak. ....	.3	.6	1.0	1.0	@	@	.7	1.1
Nebr. ....	.7	.6	.4	.5	.7	.6	1.1	1.0
Kans. ....	.2	.4	@	@	@	@	.4	.7
W. N. Cent. ....	.36	.44	.78	.60	.43	.40	.76	.77
Del., Md. ....	.3	.4	1.1	1.1	1.3	1.2	1.1	1.2
Va. ....	.3	.2	1.2	1.1	.4	.4	.8	.7
W. Va. ....	.3	.3	.5	.6	@	@	.5	.6
N. C. ....	.3	.3	1.6	1.5	.4	.4	1.0	.9
S. C. ....	.3	.3	.5	.7	.5	.5	.6	.7
Ga. ....	.2	.3	.9	.8	.5	.4	.7	.7
Fla.	@	@	@	@	@	@	@	@
S. Atl. ....	.28	.29	.99	.91	.56	.57	.80	.78
Ky. ....	.3	.2	.5	.8	.4	.5	.6	.6
Tenn. ....	.3	.2	.5	.6	.3	.4	.6	.5
Ala. ....	.2	.3	.8	.5	@	@	.5	.5
Miss. ....	.2	.2	.4	.5	.8	.9	.6	.7
Ark. ....	.4	.4	.5	@	@	@	.7	.6
La. ....	.2	.2	.4	@	.7	@	.6	.5
Okla. ....	.6	.7	.4	.4	.4	.4	.9	1.0
Tex. ....	.5	.7	.2	.1	.4	.4	.7	.9
S. Cent. ....	.38	.43	.41	.39	.40	.45	.65	.71
Mont.	1.1	.9	@	@	@	@	1.3	1.1
Idaho	1.2	1.1	@	@	@	@	1.3	1.2
Wyo.	1.3	1.3	@	@	@	@	1.6	1.6
Colo.	1.0	1.2	.8	.8	@	@	1.4	1.5
N. Mex. ....	.9	1.3	@	@	1.8	1.9	1.6	2.0
Ariz.	1.1	1.3	@	@	@	@	1.4	1.6
Utah	1.1	1.2	.2	.2	.6	.8	1.4	1.5
Nev.	@	1.4	@	@	@	@	@	1.5
Wash. ....	.5	.6	@	.3	1.0	.8	.9	1.0
Oreg. ....	.4	.3	@	@	@	@	.7	.6
Calif.	1.5	1.8	.3	.4	.8	.6	1.9	2.1
West.	1.23	1.39	.30	.39	.74	.58	1.58	1.71
U. S. ....	.49	.53	.81	.80	.67	.67	.98	1.02

^{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 roughage 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.

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

Table 7.-Hay: Percentage, by kinds, fed to milk cows in herds kept by dairy reporters, summer feeding season, 1966 and 1967 1/

State and division	Alfalfa or mixed alfalfa		Clover or mixed clover		Lespedeza		Coastal bermuda		Other	
	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Me., N. H., Vt.	39	61	41	30	-	-	-	-	20	9
Mass., R. I., Conn. .	50	52	31	31	-	-	-	-	19	17
N. Y.	63	71	24	14	-	-	-	-	13	15
N. J.	78	84	15	12	-	-	-	-	7	4
Pa.	57	57	27	25	-	-	-	-	16	18
N. Atl.	58	63	27	22	-	-	-	-	15	15
Ohio	78	74	19	16	-	-	-	-	3	10
Ind.	88	82	9	13	-	-	-	-	3	5
Ill.	90	92	8	8	-	-	-	-	2	-
Mich.	94	94	5	5	-	-	-	-	1	1
Wis.	86	87	10	7	-	-	-	-	4	6
E. N. Cent.	87	86	10	9	-	-	-	-	3	5
Minn.	85	89	9	5	-	-	-	-	6	6
Iowa	87	90	10	7	-	-	-	-	3	3
Mo.	72	80	5	4	10	4	-	-	13	12
N. Dak.	83	88	-	-	-	-	-	-	17	12
S. Dak.	92	95	-	-	-	-	-	-	8	5
Nebr.	93	94	-	-	-	-	-	-	7	6
Kans.	90	94	-	-	-	-	-	-	10	6
W. N. Cent.	85	89	7	4	1	1	-	-	7	6
Del., Md.	70	60	28	33	-	-	-	-	2	7
Va.	61	61	29	15	1	-	-	-	9	24
W. Va.	68	32	15	56	-	-	-	-	17	12
N. C.	30	21	26	34	8	17	-	-	36	28
S. C.	2	6	2	-	3	15	74	51	19	28
Ga.	6	9	2	-	6	6	72	59	14	26
Fla.	@	@	@	@	@	@	@	@	@	@
S. Atl.	41	34	19	21	3	5	14	13	23	27
Ky.	82	64	9	21	3	9	-	-	6	6
Tenn.	53	56	7	13	14	20	-	-	26	11
Ala.	25	13	1	1	5	6	15	39	54	41
Miss.	27	13	7	19	20	30	16	7	30	31
Ark.	40	33	12	15	18	20	-	1	30	31
La.	41	33	8	5	1	2	18	16	32	44
Okla.	80	81	-	-	1	2	1	1	18	16
Tex.	64	57	-	-	1	-	5	16	30	27
S. Cent.	62	57	3	4	4	4	5	11	26	24
Mont.	100	100	-	-	-	-	-	-	-	-
Idaho	100	98	-	2	-	-	-	-	-	-
Wyo.	100	100	-	-	-	-	-	-	-	-
Colo.	97	100	2	-	-	-	-	-	1	-
N. Mex.	100	99	-	1	-	-	-	-	-	-
Ariz.	100	100	-	-	-	-	-	-	-	-
Utah	99	99	1	-	-	-	-	-	-	1
Nev.	@	98	-	-	-	-	-	-	-	2
Wash.	82	80	15	17	-	-	-	-	3	3
Oreg.	71	71	19	22	-	-	-	-	10	7
Calif.	98	95	1	1	-	-	-	-	1	4
West.	97	95	2	2	-	-	-	-	1	3
U. S.	79	81	11	8	1	1	1	1	8	9

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

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

Table 8.-Silage: Percentage, by kind, fed to milk cows in herds kept by dairy reporters, summer feeding season, 1966 and 1967 ^{1/}

State and division	Corn silage		Grass silage		Sorghum silage		Other silage	
	1966	1967	1966	1967	1966	1967	1966	1967
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Me., N. H., Vt.	36	38	46	52	-	-	18	10
Mass., R. I., Conn.	56	62	39	28	-	-	5	10
N. Y.	55	51	42	49	-	-	3	-
N. J.	68	62	20	26	2	-	10	12
Pa.	60	54	28	33	-	-	12	13
N. Atl.	57	53	35	40	-	-	8	7
Ohio	35	32	62	62	3	-	-	6
Ind.	34	39	54	55	-	1	12	5
Ill.	30	28	60	62	1	4	9	6
Mich.	62	53	31	41	-	1	7	5
Wis.	53	53	30	38	-	-	17	9
E. N. Cent.	49	47	38	45	1	1	12	7
Minn.	67	61	19	22	1	1	13	16
Iowa	55	55	20	19	-	-	25	26
S. Dak.	60	68	27	22	10	2	3	8
W. N. Cent.	56	59	26	20	4	5	14	16
S. Atl.	50	56	15	24	5	2	30	18
S. Cent.	53	55	14	16	17	15	16	14
West.	70	67	14	20	9	3	7	10
U. S.	54	52	31	36	2	2	13	10

^{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.

FORAGE FED TO MILK COWS, 1967 SUMMER FEEDING SEASON

Summer feeding of forage increases

Feeding of forage to milk cows during the 1967 summer feeding season (June-September) increased over a year earlier. The hay equivalent of silage and green feed plus hay fed averaged 1.02 tons per cow compared with 0.98 ton a year earlier. Summer feeding of forage was heaviest in the Western and East North Central Regions. Forage fed per cow increased from a year earlier in all regions except the North and South Atlantic. These summer feeding rates represent average rates per milk cow on farms where some forage was fed during the summer. This is a different basis than rates for the winter feeding season, when nearly all milk cows are fed some forage.

Summer feeding of silage was down in all regions except the East North Central and West. For the season, silage fed averaged 0.80 ton per cow, slightly less than a year earlier. Silage was fed more heavily in the East North Central than in any other region -- the 1.12 tons fed per cow compares with 1.02 tons during the 1966 season. Hay feeding averaged 0.53 ton per cow during the 1967 summer feeding season, compared with 0.49 ton a year earlier. Hay feeding rates increased over 1966 in all regions except the North Atlantic. The hay feeding rate in the West, at 1.39 tons per cow, exceeded all other regions.

The feeding rate for green feed during the summer months was 0.67 ton per cow, the same as a year earlier. Commonly called "green chop", green feed includes legumes, grasses, small grains, sorghum, etc. cut and fed green. The average feeding rate was the highest in the East North Central Region.

Alfalfa--leading type of hay

Alfalfa or alfalfa mixtures accounted for 81 percent of the hay fed to milk cows during the summer of 1967. This compares with 79 percent during the same period in 1966. Nearly all the hay fed in the West -- 95 percent -- was alfalfa. Alfalfa also accounted for nearly 90 percent of all hay fed in the North Central States. Clover or mixed clover hay represented 8 percent of the hay fed in the 1967 summer season compared with 11 percent a year earlier. Clover represented 30 percent or more of all hay fed in New England, Delaware and Maryland, West Virginia, and North Carolina. Lespedeza and Coastal Bermuda hay each represented 1 percent of the national total in 1967, the same as during the previous summer feeding season. Lespedeza is relatively important in Tennessee, Mississippi and Arkansas, while more than one-half the hay fed in South Carolina and Georgia was Coastal Bermuda. About 9 percent of the hay fed during the 1966 summer season was other hay, compared with 8 percent last year.

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Corn silage popular dairy feed

Of the silage fed during the 1967 summer feeding season, corn silage was most popular with 52 percent of the total. This was down slightly from a year earlier. Corn silage accounted for 67 percent of silage fed in the West and 59 percent in the West North Central. Elsewhere corn silage amounted to roughly half of all silage fed. Nationally, grass silage accounted for 36 percent of all silage fed, compared with 31 percent last year.

Sorghum silage made up 2 percent of the total quantity of silage fed in 1967, the same as a year earlier. Other silage accounted for 10 percent of all silage this year, compared with 13 percent during the 1966 summer feeding season.