

MILK PRODUCTION

~~Periodical~~

December 11, 1963

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Special in this issue
ROUGHAGE FED TO MILK COWS--1963
SUMMER FEEDING SEASON, page 5

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SUMMARY

DEC 17 1963

November milk production in the United States was 9,193 million pounds, about 2 percent less than November a year ago but 3 percent above the 1957-61 average for the month. November was the second consecutive month with U. S. milk production about 2 percent below a year earlier. For the first 11 months of the year, milk production totaled 1 percent less than in 1962. Relative to population, November milk production amounted to 1.61 pounds per person daily, compared with 1.66 pounds a year earlier.

Milk output per cow averaged 559 pounds -- 1 percent above November a year ago and 13 percent above the 1957-61 average for the month. The average daily rate of 18.6 pounds per cow in November was one-tenth pound less than in October, the same seasonal change as in 1962. Reporters fed an average of 8.2 pounds of grain and concentrates per milk cow on December 1, about 5 percent more than on that date last year.

Table 1.-Milk per cow and milk production by months, United States, 1963, with comparisons

Month	Milk per cow			Milk production			
	Average 1957-61	1962	1963	Average 1957-61	1962	1963	Change from 1962
	Pounds	Pounds	Pounds	Million pounds	Million pounds	Million pounds	Percent
January.....	529	586	596	9,781	10,111	10,043	-0.7
February.....	507	557	563	9,360	9,598	9,470	-1.3
March.....	584	639	650	10,741	10,994	10,907	-0.8
April.....	605	654	666	11,096	11,232	11,149	-0.7
May.....	678	725	736	12,418	12,429	12,295	-1.1
June.....	656	697	712	11,981	11,926	11,842	-0.7
July.....	604	639	654	11,006	10,912	10,856	-0.5
August.....	559	598	613	10,156	10,191	10,154	-0.4
September.....	519	567	581	9,398	9,636	9,598	-0.4
October.....	520	574	579	9,394	9,740	9,542	-2.0
November.....	496	552	559	8,932	9,345	9,193	-1.6
December.....	527	581		9,474	9,813		
Annual.....	6,785	7,370		123,737	125,927		

Table 2.-Monthly milk per cow and milk production
November 1963, with comparisons

State	Monthly milk per cow ^{1/}			Milk production			
	Nov. av. 1957-61	Nov. 1962	Nov. 1963	Nov. av. 1957-61	Nov. 1962	Nov. 1963	Change from 1962
	Pounds	Pounds	Pounds	Million pounds	Million pounds	Million pounds	Percent
New York.....	581	663	646	733	826	778	-6
New Jersey.....	669	744	752	89	92	88	-4
Pennsylvania.....	560	628	625	499	543	528	-3
Ohio.....	582	653	640	406	424	396	-7
Indiana.....	536	620	635	240	252	250	-1
Illinois.....	525	585	600	317	309	300	-3
Michigan.....	609	690	710	402	438	442	+1
Wisconsin.....	563	614	625	1,222	1,313	1,324	+1
Minnesota.....	514	550	555	664	696	699	0
Iowa.....	459	503	525	404	413	413	0
Missouri.....	373	400	405	253	252	243	-4
North Dakota.....	349	360	380	101	96	98	+2
South Dakota.....	354	378	400	91	88	91	+3
Nebraska.....	386	405	440	132	117	121	+3
Kansas.....	441	476	520	154	149	151	+1
Maryland.....	540	560	580	118	120	122	+2
Virginia.....	461	500	495	157	160	154	-4
West Virginia.....	379	394	408	52	46	45	-2
North Carolina.....	453	495	505	127	126	126	0
South Carolina.....	382	440	440	44	45	45	0
Georgia.....	369	380	395	84	77	77	0
Florida.....	542	605	610	103	108	111	+3
Kentucky.....	344	390	385	177	191	184	-4
Tennessee.....	313	330	317	159	161	151	-6
Alabama.....	290	305	325	74	68	69	+1
Mississippi.....	242	280	285	94	90	86	-4
Arkansas.....	316	330	332	74	67	62	-7
Oklahoma.....	416	505	485	113	111	105	-5
Texas.....	384	437	442	231	237	229	-3
Montana.....	407	445	455	33	32	31	-3
Idaho.....	556	605	600	112	117	115	-2
Wyoming.....	428	475	490	13.4	12.8	12.7	-1
Colorado.....	514	550	570	65	63	64	+2
Utah.....	599	640	645	57	59	58	-2
Nevada.....	561	660	700	8.3	9.9	9.8	-1
Washington.....	599	685	708	142	161	161	0
Oregon.....	461	470	474	76	70	68	-3
California.....	746	824	820	618	662	648	-2
Hawaii.....	^{2/} 775	780	765	^{2/} 11.0	11.8	11.0	-7
Other States ^{3/}	-	-	-	482	531	527	-1
United States.....	496	552	559	8,932	9,345	9,193	-1.6

^{1/} Estimated monthly rate based on all milk cows on farms (in milk or dry).

^{2/} Short-time average.

^{3/} Estimates not available for individual States.

Milk production continues 2 percent below year earlier

November milk production in the United States was 9,193 million pounds -- about 2 percent less than a year earlier for the second successive month. Production was 3 percent above the 1957-61 average for the month. Average daily production declined less than one percent from October to November, compared with an average decline of 2 percent between these months in the 1957-61 period. For the first 11 months of the year, milk production totaled 1 percent less than in 1962. Relative to population, November milk production amounted to 1.61 pounds per person daily, compared with 1.66 pounds a year earlier.

Milk production was below November a year ago in 23 of the 39 States for which monthly estimates are available. Production dropped to new record lows for the month in 6 of these States -- West Virginia, Arkansas, Oklahoma, Montana, Wyoming, and Oregon. New record highs for November production were set in only two States -- Michigan and Wisconsin, but previous record highs for November were matched this year in Maryland, Florida, and Washington.

November milk per cow 1 percent above 1962

Milk output per cow in November averaged 559 pounds -- 1 percent above a year earlier and 13 percent above the 1957-61 average for the month. The average daily rate of 18.6 pounds per cow in November was one-tenth pound less than in October, the same seasonal decline as in 1962. Output per cow was above November last year in 28 of the 39 States for which monthly estimates are available, and set new record highs for the month in 22 States.

December 1 feeding rate of grain and concentrates up 5 percent

On December 1, dairymen were feeding grain and concentrates at a record level for the date. The U. S. average for December 1 was 8.2 pounds per cow in herds kept by reporters, compared with 7.8 pounds a year earlier -- an increase of 5 percent. For December 1, the 1957-61 average feeding rate is 7.0 pounds. Seasonally, the increase from October 1 was less than usual. The December 1 rate was up 1.1 pounds, compared with the 5-year average advance of 1.3 pounds. Generally, only minor changes from a year earlier occurred in the North Atlantic and East North Central States. Moderate gains were reported in other regions, but in the South Atlantic States, there was an average increase of 12 percent.

November milk-feed price ratio unchanged from last year

The November milk-feed price ratio, (the quantity of feed equal in value to 1 pound of milk) was 1.48, unchanged from the corresponding month last year. The seasonal increase of 2 percent from October equaled the 1957-61 average change from October to November. The more favorable ratio than in October resulted from a 2-cent decline in value of concentrate rations and a 5-cent advance in wholesale milk prices. The 5-year average milk-feed price ratio for November is 1.59. In cream selling areas, the November milkfat-feed price ratio was 23.3, compared with 23.0 a month earlier and 23.9 for November a year ago. The 5-year average for November is 26.1.

Table 3.-Grain and other concentrates fed daily per milk cow in herds kept by reporters, December 1, 1963, with comparisons

State	Dec. 1, av. 1957-61	Dec. 1 1962	Dec. 1, 1963	State	Dec. 1, av. 1957-61	Dec. 1, 1962	Dec. 1, 1963
	Lb.	Lb.	Lb.		Lb.	Lb.	Lb.
New York.....	8.0	8.6	9.2	North Carolina....	7.2	7.8	8.7
New Jersey.....	8.9	10.6	10.7	South Carolina....	6.5	6.8	7.0
Pennsylvania.....	8.9	10.6	10.8	Georgia.....	6.0	7.8	9.3
Ohio.....	8.4	9.8	9.8	Kentucky.....	6.3	7.2	6.9
Indiana.....	7.6	8.9	9.2	Tennessee.....	6.1	6.5	6.4
Illinois.....	7.3	8.2	8.4	Alabama.....	5.5	7.0	7.0
Michigan.....	8.3	9.8	10.0	Mississippi.....	4.6	5.0	4.3
Wisconsin.....	7.3	8.1	8.0	Arkansas.....	5.4	5.6	7.7
Minnesota.....	7.2	7.9	8.6	Oklahoma.....	6.8	8.0	7.5
Iowa.....	7.5	8.2	7.9	Texas.....	5.9	5.5	7.0
Missouri.....	6.7	7.3	8.5	Montana.....	4.9	5.1	4.8
North Dakota.....	6.3	7.0	7.6	Idaho.....	4.9	5.8	6.2
South Dakota.....	4.8	5.4	6.2	Wyoming.....	4.6	5.2	5.0
Nebraska.....	6.1	6.9	7.5	Colorado.....	6.3	7.0	7.0
Kansas.....	7.4	7.5	7.9	Utah.....	5.6	6.9	6.5
Maryland.....	8.7	9.7	10.1	Washington.....	6.6	7.5	8.6
Virginia.....	7.2	8.2	9.5	Oregon.....	5.4	5.4	5.3
West Virginia.....	4.9	5.6	6.2	California.....	7.3	8.0	9.0
				United States.....	7.0	7.8	8.2

Table 4.-Average milk price received by farmers and value of concentrate ration fed to milk cows, by regions, November 1963, with comparisons

Region	Milk price per 100 pounds				Ration value per 100 pounds			
	Nov. av. 1957-61	Nov. 1962	Oct. 1963	Nov. 1963	Nov. av. 1957-61	Nov. 1962	Oct. 1963	Nov. 1963
	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.
N. Atl.	5.44	5.05	5.12	5.16	3.49	3.58	3.65	3.62
E. N. Cent. ..	4.04	3.91	3.91	3.96	2.62	2.74	2.80	2.77
W. N. Cent. ..	3.71	3.58	3.61	3.61	2.20	2.37	2.42	2.39
S. Atl.	5.72	5.70	5.64	5.74	3.31	3.30	3.43	3.39
S. Cent.	5.15	4.97	4.91	5.10	2.96	3.06	3.17	3.18
West.	4.67	4.46	4.44	4.52	3.11	3.17	3.20	3.22
U. S.								
Milk areas....	4.59	4.40	4.42	4.47	2.88	2.97	3.05	3.03
Cream areas...	-	-	-	-	2.36	2.46	2.53	2.50
Milk and cream areas.....	-	-	-	-	2.84	2.94	3.02	3.00

Table 5.-Milk-feed and milkfat-feed price ratios, by regions, November 1963, with comparisons

Region	Milk-feed ratio 1/				Milkfat-feed ratio 2/			
	Nov. av. 1957-61	Nov. 1962	Oct. 1963	Nov. 1963	Nov. av. 1957-61	Nov. 1962	Oct. 1963	Nov. 1963
N. Atl.	1.56	1.41	1.40	1.43	-	-	-	-
E. N. Cent. ..	1.54	1.43	1.40	1.43	21.6	20.0	19.6	19.7
W. N. Cent. ..	1.69	1.51	1.49	1.51	28.8	25.2	24.4	24.8
S. Atl.	1.73	1.73	1.64	1.69	-	-	-	-
S. Cent.	1.73	1.62	1.55	1.60	17.6	16.8	16.0	16.2
West.	1.50	1.41	1.39	1.40	19.5	18.2	18.2	18.1
U. S.	1.59	1.48	1.45	1.48	26.1	23.9	23.0	23.3

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, 1962 and 1963 ^{1/}

State and division	Hay		Silage		Green feed ^{2/}		Hay equiv. of all roughage fed ^{3/}	
	1962	1963	1962	1963	1962	1963	1962	1963
	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons
Me., N. H., Vt. ....	.2	.2	.2	.2	.5	.4	.4	.4
Mass., R. I., Conn. ....	.3	.3	.5	.3	.5	.3	.6	.5
N. Y. ....	.3	.3	.5	.4	.2	.3	.6	.5
N. J. ....	.3	.5	1.0	1.3	.8	1.1	.9	1.3
Pa. ....	.4	.5	.6	.7	.3	.6	.7	.9
N. Atl. ....	.3	.3	.6	.5	.4	.5	.7	.7
Ohio.....	.2	.3	.6	.7	.4	.4	.6	.6
Ind. ....	.4	.4	.6	.8	.5	.3	.7	.8
Ill. ....	.4	.4	.9	.9	1.0	1.3	1.0	1.1
Mich. ....	.4	.4	.7	.8	1.0	1.0	.9	1.0
Wis. ....	.2	.3	.8	.9	.7	.5	.7	.8
E. N. Cent. ....	.3	.3	.8	.9	.7	.6	.8	.8
Minn. ....	.3	.4	.3	.6	.2	.5	.5	.8
Iowa.....	.5	.4	.5	.3	.7	.7	.9	.7
Mo. ....	.2	.2	.3	.5	.2	.5	.4	.6
N. Dak. ....	.8	.4	.2	a/	.1	a/	.9	.6
S. Dak. ....	.4	.3	.6	.7	.2	a/	.7	.6
Nebr. ....	.2	.4	.1	.2	b/	.3	.2	.7
Kans. ....	.5	.4	b/	a/	.1	a/	.6	.6
W. N. Cent. ....	.3	.4	.3	.4	.2	.5	.5	.7
Del., Md. ....	.3	.4	.9	1.1	.4	.5	.7	.9
Va. ....	.2	.3	.5	.7	.3	.4	.5	.6
W. Va. ....	.2	.2	.3	.6	.2	a/	.4	.5
N. C. ....	.4	.3	1.1	1.3	.1	.4	.7	.8
S. C. ....	.1	.3	.2	1.0	b/	.4	.2	.8
Ge. ....	.2	.3	.2	.5	.3	.4	.3	.6
Fla.	a/	a/	a/	a/	a/	a/	a/	a/
S. Atl. ....	.2	.3	.4	.7	.2	.4	.4	.7
Ky. ....	.2	.3	.4	.5	.7	a/	.6	.7
Tenn. ....	.1	.2	b/	.4	.2	.2	.2	.4
Ala. ....	.2	.3	.1	.4	.2	.3	.3	.5
Miss. ....	.3	.3	b/	a/	b/	a/	.3	.3
Ark. ....	.2	.4	-	a/	.2	a/	.2	.5
La.	b/	.4	-	a/	.6	a/	.2	.6
Okla. ....	.6	.6	.4	.4	.1	.3	.8	.8
Tex. ....	.5	.6	.2	.1	.7	.2	.8	.7
S. Cent. ....	.4	.4	.2	.3	.4	.2	.6	.6
Mont. ....	.9	.8	.1	a/	.7	a/	1.2	1.2
Idaho.....	1.2	.9	.5	a/	.1	a/	1.4	1.0
Wyo.	1.2	1.0	.8	a/	-	a/	1.4	1.5
Colo.	1.3	1.4	.8	.4	.3	a/	1.7	1.8
N. Mex.	1.3	1.2	.7	a/	1.6	a/	2.1	1.6
Ariz.	1.2	.8	.7	.4	1.9	a/	2.0	1.2
Utah.....	1.8	1.6	.2	.3	.1	.3	1.9	1.8
Nev.	1.1	a/	a/	a/	a/	a/	a/	a/
Wash. ....	.5	.5	.3	.4	1.3	.7	1.0	.8
Oreg. ....	.4	.5	.2	.6	.6	a/	.6	1.0
Calif.	1.1	1.3	b/	.3	.6	.8	1.3	1.7
West.	1.0	1.3	.2	.3	.8	.8	1.3	1.7
U. S. ....	.5	.5	.4	.6	.5	.5	.8	.9

^{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.

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

b/ Less than .05 ton.

Table 7.-Hay: Percentage, by kinds, fed to milk cows in herds kept by dairy reporters, summer feeding season, 1962 and 1963 ^{1/}

State and division	Alfalfa or mixed alfalfa		Clover or mixed clover		Lespedeza ^{2/}	Coastal bermuda ^{3/}	Other	
	1962	1963	1962 ^{2/}	1963	1963	1963	1962 ^{3/}	1963
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Me., N.H., Vt.	30	38	57	51	-	-	13	11
Mass., R.I., Conn.	45	30	43	58	-	-	12	12
N. Y.	60	70	33	27	-	-	7	3
N. J.	80	68	14	19	-	-	6	13
Pa.	56	59	21	19	-	-	23	22
N. Atl.	56	60	24	26	-	-	20	14
Ohio.....	68	82	27	13	-	-	5	5
Ind.	81	77	13	15	-	-	6	8
Ill.	91	86	8	13	-	-	1	1
Mich.	90	91	7	8	-	-	3	1
Wis.	90	92	10	7	-	-	-	1
E. N. Cent.	86	88	12	10	-	-	2	2
Minn.	86	87	9	10	-	-	5	3
Iowa.....	89	94	10	4	-	-	1	2
Mo.	83	80	4	5	5	-	13	10
N. Dak.	93	a/	-	a/	-	-	7	a/
S. Dak.	80	92	-	-	-	-	20	8
Nebr.	96	92	1	1	-	-	3	7
Kans.	97	96	2	-	-	-	1	4
W. N. Cent.	88	89	7	6	-	-	5	5
Del., Md.....	75	55	22	28	9	-	3	8
Va.	85	54	11	27	4	-	4	15
W. Va.	59	58	12	37	-	-	29	5
N. C.	46	30	33	31	15	2	21	22
S. C.	20	20	27	5	25	18	53	32
Ga.	28	20	10	2	3	35	62	40
Fla.	a/	a/	a/	a/	a/	a/	a/	a/
S. Atl.	53	38	19	16	4	3	28	39
Ky.	75	69	24	12	14	-	1	5
Tenn.	20	38	59	15	27	-	21	20
Ala.	22	7	12	13	14	11	66	55
Miss.	6	7	62	11	32	2	32	48
Ark.	22	24	51	22	19	3	27	32
La.	7	a/	50	a/	a/	a/	43	a/
Okla.	75	78	4	2	4	1	21	15
Tex.	49	63	1	1	1	4	50	31
S. Cent.	51	54	8	4	6	4	41	32
Mont.	95	97	-	-	-	-	5	3
Idaho.....	98	98	1	1	-	-	1	1
Wyo.	100	99	-	1	-	-	-	-
Colo.	100	99	-	-	-	-	-	1
N. Mex.	100	99	-	-	-	-	-	1
Ariz.	100	98	-	-	-	-	-	2
Utah.....	99	98	-	1	-	-	1	1
Nev.	100	100	-	-	-	-	-	-
Wash.	85	74	7	19	-	-	8	7
Oreg.	57	78	17	18	-	-	26	4
Calif.	98	98	-	-	-	-	2	2
West.	97	98	1	1	-	-	2	1
U. S.	83	82	8	8	1	1	9	8

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

^{2/} Prior to 1963, lespedeza hay was included with clover and mixed clover hay.

^{3/} Prior to 1963, coastal bermuda hay was included in other hay.

a/ 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, 1962 and 1963 ^{1/}

State and division	Corn silage		Grass silage		Sorghum silage ^{2/}	Other silage	
	1962	1963	1962	1963	1963	1962 ^{2/}	1963
	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Me., N. H., Vt.	29	71	68	29	-	3	-
Mass., R. I., Conn.	34	49	57	33	-	9	18
N. Y.	60	60	36	38	-	4	2
N. J.	44	54	46	28	5	10	13
Pa.	35	32	56	47	-	9	21
N. Atl.	40	46	52	41	1	8	12
Ohio.....	26	26	71	70	-	3	4
Ind.	44	36	56	63	-	-	1
Ill.	68	56	29	36	3	3	5
Mich.	65	63	35	36	-	-	1
Wis.	61	66	30	23	-	9	11
E. N. Cent.	56	57	39	33	2	5	8
Minn.	73	75	18	19	-	9	6
S. Dak.	48	77	49	11	7	3	5
Nebr.	40	50	20	10	10	40	30
W. N. Cent.	66	66	27	10	8	7	16
Del., Md.	42	47	41	40	3	17	10
Va.	88	70	6	8	-	6	22
N. C.	82	81	6	6	5	12	8
S. Atl.	62	66	21	18	3	17	13
S. Cent.	17	44	45	27	19	38	10
West.	48	43	19	17	18	33	22
U. S.	47	55	40	29	5	13	11

^{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.

^{2/} Prior to 1963, sorghum silage was included in other silage.

ROUGHAGE FED TO MILK COWS, 1962 AND 1963 SUMMER FEEDING SEASONS

More roughage fed during 1963 summer season

The hay equivalent of hay, silage and green feed fed to milk cows during the 1963 summer feeding season was nine-tenths of a ton per cow on farms where some roughage was fed. During the summer feeding season of 1962 the rate was eight-tenths of a ton per cow. The increase in the hay equivalent resulted from more silage being fed. Silage was fed at the rate of six-tenths of a ton in the summer of 1963, compared with four-tenths of a ton in 1962. Summer feeding rates for hay and green feed were both unchanged from a year earlier at one-half ton per cow. The hay equivalent of roughage fed increased from a year earlier in the West North Central, South Atlantic, and Western regions; other regions were unchanged. Feeding rates for silage increased in all regions except the North Atlantic. Hay feeding rates increased in the West North Central, South Atlantic, and Western regions, but were unchanged in other regions. Feeding of green feed was heavier in the North Atlantic, West North Central, and South Atlantic Regions, declined in the East North Central and South Central, and was unchanged in the Western Region.

Alfalfa hay predominates in summer feeding of milk cows

In the 1963 summer feeding season, alfalfa or mixed alfalfa hay accounted for 82 percent of the hay fed, compared with 83 percent during the 1962 summer season. Alfalfa hay predominated

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in all regions except the South Atlantic and virtually all hay fed in the Western Region was alfalfa or an alfalfa mixture. Clover or mixed clover hay made up 8 percent of the hay fed in the 1963 summer feeding season, unchanged from the 1962 season. About one-fourth of the hay fed in the North Atlantic Region and one-sixth in the South Atlantic was clover or mixed clover hay. Feeding of lespedeza and coastal bermuda hay was confined mostly to the South Atlantic and South Central States, although some lespedeza was fed in Missouri. Hay classified as "other" made up 8 percent of the U. S. total for the summer feeding period of 1963. Most of this hay was fed in the North Atlantic, South Atlantic, and South Central regions.

Summer feeding of corn silage up from 1962

For the summer feeding period of 1963 -- 55 percent of the total silage fed was corn silage, compared with 47 percent in 1962. Corn silage accounted for the largest percentage of the total silage fed in each region. Grass silage amounted to 29 percent of the quantity fed in 1963, compared with 40 percent a year earlier. Grass silage was an important summer feed in the North Atlantic and East North Central States. Sorghum silage fed to milk cows amounted to 5 percent in the summer of 1963 -- used mostly in the West North Central, South Central, and Western regions. Of the U. S. total silage fed in 1963, 11 percent was classified as "other" compared with 13 percent in 1962.