

MILK PRODUCTION

NOVEMBER 1970

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November milk production up 2 percent from a year earlier

U. S. milk production in November is estimated at 8,835 million pounds, 2 percent more than a year earlier. Daily average production was down 1 percent from October compared with a 2-percent decline a year earlier. November output provided 1.43 pounds of milk per person daily for all uses, slightly more than the 1.42 pounds a year earlier but less than the October supply of 1.45 pounds. Production for the first 11 months of 1970 was 0.6 percent more than a year earlier.

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

Rate per cow up 3 percent from a year earlier, milk cows down 1 percent

Milk output per cow averaged 712 pounds in November -- up 3 percent from a year earlier. Daily production per cow averaged 23.7 pounds, about 1 percent less than October compared with a 2-percent decline between these two months a year earlier. Production per cow was record high in 47 States. It was highest in California -- 980 pounds, followed by Arizona -- 930 pounds, Washington and Hawaii each with 860 pounds, and Connecticut at 835 pounds.

Milk cows on farms during November totaled 12,406,000 head, down 1 percent from a year earlier.

Milk-feed price ratio 4 percent less than a year earlier

The November milk-feed price ratio at 1.79 was 4 percent less than a year earlier. The U. S. average milk price increased 16¢ from a year earlier, while ration value increased 23¢ causing the decrease in the ratio. The ratio showed a 1 percent gain from October, the same as a year earlier.

Grain and concentrate feeding 4 percent above a year earlier

Grain and concentrate fed on December 1 averaged 11.5 pounds per milk cow -- up 4 percent from a year earlier and a record high for the date. Feeding rates were above a year earlier in 29 States. Twenty-six States averaged 11 or more pounds per cow on December 1 this year. A year earlier 24 States were feeding 11 or more pounds of grain and concentrate per cow.

Special in this issue FORAGE FED TO MILK COWS -- 1970 SUMMER FEEDING SEASON

FORAGE FED TO MILK COWS, 1970 SUMMER FEEDING SEASON

Summer feeding of forage about the same as 1969

Feeding of forage to milk cows in the 1970 summer season (June-September) averaged 1.24 tons of hay equivalent per cow compared with 1.23 tons a year earlier. In the five leading dairy States, summer forage feeding was down slightly from last year in Minnesota, up in New York, Pennsylvania and California, and unchanged in Wisconsin. These feeding rates represent average per milk cow on farms that fed some forage in the summer. Rates for the winter feeding season reflect all farms reporting as most farms feed forage during this period.

Hay fed for the U. S. averaged 0.58 ton per milk cow for the 1970 summer feeding season -- up slightly from the 0.57 ton fed a year earlier. Silage feeding was up from a year earlier. Quantity fed during the summer totaled 1.17 tons per milk cow compared with 1.11 tons a year earlier. The quantity of green feed dropped off slightly from 0.86 ton in 1969 to 0.85 ton in 1970.

Alfalfa continues as leading hay

Alfalfa or alfalfa mixtures accounted for 80 percent of the hay fed during the 1970 summer feeding season compared with 82 percent reported a year earlier. Alfalfa was the predominant 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 -- the same as a year earlier. Lespedeza represented 1 percent of all U. S. hay fed, and Coastal Bermuda 2 percent. These two hays are used mainly in the South Atlantic and South Central regions. Seven percent of the hay fed during the summer was classified as "other" -- up slightly from a year earlier.

Corn silage most important

Corn silage accounted for 49 percent of all silage fed to milk cows during the summer season -- 2 percentage points below a year earlier. Grass silage increased 4 percentage points from last year, and at 45 percent of the total, represents a close second to corn silage. Grass silage was predominant in all States of the East North Central region, while corn silage predominated in most other States. Nationally, sorghum silage made up 2 percent of the U. S. total -- the same as a year earlier. Other silage dropped off from 6 percent of the total during the 1969 summer feeding season, to 4 percent of the total in 1970.

November milk cows and milk production by months, United States

Month	Milk cows on farms ^{1/}			Milk per cow ^{2/}			Milk production ^{2/}			:Change : from : 1969
	: 1968	: 1969	: 1970	: 1968	: 1969	: 1970	: 1968	: 1969	: 1970	
	Thousands			Pounds			Million pounds			Percent
January	13,235	12,818	12,544	717	734	750	9,495	9,411	9,412	0
February	13,200	12,795	12,530	696	687	706	9,137	8,792	8,840	+0.5
March	13,164	12,765	12,514	775	780	803	10,197	9,960	10,053	+0.9
April	13,132	12,742	12,500	796	806	826	10,457	10,265	10,330	+0.6
May	13,097	12,721	12,482	858	867	883	11,235	11,034	11,019	-0.1
June	13,056	12,701	12,472	826	847	862	10,736	10,759	10,750	-0.1
July	13,024	12,673	12,457	783	800	816	10,202	10,142	10,162	+0.2
August	12,990	12,653	12,450	740	764	782	9,612	9,673	9,732	+0.6
September	12,952	12,626	12,437	701	726	744	9,083	9,165	9,250	+0.9
October	12,917	12,601	12,424	706	725	744	9,124	9,138	9,248	+1.2
November	12,880	12,579	12,406	677	691	712	8,717	8,691	8,835	+1.7
Jan.-Nov. total ..							108,095	107,030	107,631	+0.6
December	12,847	12,559		711	730		9,139	9,170		
Annual	13,038	12,689		8,992	9,158		117,234	116,200		

^{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 : 1969
	1968	1969	1970	1968	1969	1970	1968	1969	1970	
	Thousands			Pounds			Million pounds				Percent
Maine	69	69	69	655	695	695	45	48	48	0
New Hampshire	38	38	37	730	745	770	28	28	28	0
Vermont	207	205	207	670	705	730	139	145	151	+4
Massachusetts	68	65	64	795	820	825	54	53	53	0
Rhode Island	7.9	7.9	7.6	760	780	785	6.0	6.2	6.0	-3
Connecticut	67	66	64	810	825	835	54	54	53	-2
New York	1,024	1,018	1,020	745	755	765	763	769	780	+1
New Jersey	77	74	70	790	805	790	61	60	55	-8
Pennsylvania	722	715	708	730	760	760	527	543	538	-1
Ohio	470	458	450	715	735	740	336	337	333	-1
Indiana	245	243	235	740	735	775	181	179	182	+2
Illinois	325	320	314	695	720	730	226	230	229	0
Michigan	477	471	466	755	760	775	360	358	361	+1
Wisconsin	1,869	1,832	1,808	690	680	725	1,290	1,246	1,311	+5
Minnesota	1,043	986	961	670	700	705	699	690	678	-2
Iowa	554	513	479	655	650	670	363	333	321	-4
Missouri	375	363	353	595	600	615	223	218	217	0
North Dakota	153	145	139	470	455	475	72	66	66	0
South Dakota	198	187	175	555	535	570	110	100	100	0
Nebraska	208	198	190	590	605	620	123	120	118	-2
Kansas	210	204	198	635	640	690	133	131	137	+5
Delaware	15	15	15	720	740	750	10.8	11.1	11.3	+2
Maryland	169	168	168	730	755	755	123	127	127	0
Virginia	228	223	221	615	635	640	140	142	141	-1
West Virginia	66	62	60	500	530	530	33	33	32	-3
North Carolina	192	189	187	625	650	670	120	123	125	+2
South Carolina	71	68	66	575	590	605	41	40	40	0
Georgia	140	140	141	620	680	695	87	95	98	+3
Florida	187	191	192	635	645	695	119	123	133	+8
Kentucky	361	349	342	480	505	525	173	176	180	+2
Tennessee	322	308	306	485	515	535	156	159	164	+3
Alabama	141	137	134	470	495	500	66	68	67	-1
Mississippi	205	198	193	405	410	420	83	81	81	0
Arkansas	100	98	97	530	535	560	53	52	54	+4
Louisiana	177	174	172	470	505	505	83	88	87	-1
Oklahoma	154	150	148	665	695	720	102	104	107	+3
Texas	351	353	355	660	680	675	232	240	240	0
Montana	46	44	42	580	610	650	27	27	27	0
Idaho	156	154	152	690	675	705	108	104	107	+3
Wyoming	19.1	18.7	18.6	635	650	655	12.1	12.2	12.2	0
Colorado	100	102	101	670	670	690	67	68	70	+3
New Mexico	38	36	36	685	695	695	26	25	25	0
Arizona	52	51	52	870	920	930	45	47	48	+2
Utah	76	76	81	790	800	800	60	61	65	+7
Nevada	13.8	13.8	13.9	790	775	790	10.9	10.7	11.0	+3
Washington	185	184	188	800	815	860	148	150	162	+8
Oregon	112	109	110	630	660	670	71	72	74	+3
California	781	775	785	915	935	980	715	725	769	+6
Alaska	1.7	1.7	1.7	790	805	730	1.34	1.37	1.24	-9
Hawaii	13.3	13.1	13.0	810	840	860	10.8	11.0	11.2	+2
United States	12,880	12,579	12,406	677	691	712	8,717	8,691	8,835	+1.7

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. 1969	Oct. 1970	Nov. 1970	Nov. 1969	Oct. 1970	Nov. 1970	Nov. 1969	Oct. 1970	Nov. 1970
	Pounds			Dollars					
N. Atl.	1.78	1.74	1.73	6.53	6.74	6.71	3.66	3.88	3.87
E. N. Cent.	1.86	1.78	1.81	5.59	5.70	5.77	3.01	3.20	3.18
W. N. Cent.	1.93	1.81	1.82	5.13	5.22	5.27	2.66	2.89	2.89
S. Atl.	2.00	1.82	1.83	6.95	6.98	7.11	3.48	3.84	3.88
S. Cent.	1.98	1.86	1.88	6.56	6.52	6.69	3.32	3.51	3.55
West.	1.77	1.71	1.72	5.62	5.65	5.77	3.17	3.30	3.36
U. S.	1.87	1.78	1.79	5.92	6.02	6.08	3.16	3.38	3.39

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.

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

State	1968	1969	1970	State	1968	1969	1970
	Pounds				Pounds		
Maine	11.5	12.2	12.0	N. C.	9.5	10.3	10.0
N. H.	10.8	11.0	11.5	S. C.	10.0	11.4	12.4
Vt.	10.2	10.6	10.5	Ga.	12.5	12.0	13.5
Mass.	12.2	12.9	12.5	Fla.	10.0	11.0	12.0
R. I.	12.2	12.5	12.5				
Conn.	12.9	13.5	12.5	Ky.	9.7	8.3	10.0
N. Y.	11.3	11.6	11.6	Tenn.	8.4	9.2	9.5
N. J.	12.1	12.3	12.0	Ala.	10.5	11.0	10.0
Pa.	13.2	13.5	13.8	Miss.	9.0	11.0	10.0
				Ark.	10.7	10.2	10.7
Ohio	11.8	13.0	11.9	La.	10.5	10.8	12.3
Ind.	11.8	12.6	12.6	Okl.	11.2	12.6	12.7
Ill.	11.0	11.5	12.1	Texas	9.8	13.0	13.2
Mich.	11.6	10.8	11.5				
Wis.	10.0	10.2	10.5	Mont.	7.4	8.5	8.7
				Idaho	8.1	8.0	9.0
Minn.	10.6	10.9	11.6	Wyo.	6.5	7.5	6.5
Iowa.	10.6	10.2	11.0	Colo.	10.5	9.7	9.0
Mo.	9.7	10.9	9.9	N. Mex.	11.0	10.5	13.0
N. Dak.	9.5	9.9	9.7	Ariz.	9.0	11.0	12.5
S. Dak.	8.6	8.9	10.2	Utah	8.6	9.3	8.4
Nebr.	8.5	8.0	9.7	Nev.	11.0	10.0	9.5
Kans.	10.5	11.4	13.4	Wash.	10.3	11.4	10.4
				Oreg.	9.7	8.9	10.0
Del.	12.7	13.4	13.5	Calif.	12.0	12.5	14.0
Md.	12.8	13.4	13.5				
Va.	10.0	10.7	10.9	U. S.	10.6	11.1	11.5
W. Va.	7.5	7.6	9.1				

Hay, silage, and green feed fed per milk cow in herds kept
by dairy reporters, summer feeding season, 1969 and 1970 ^{1/}

State	Hay		Silage		Green feed ^{2/}		Hay equiv. of all forage fed ^{3/}	
	1969	1970	1969	1970	1969	1970	1969	1970
Tons								
Me., N. H., & Vt. ....	.3	.3	.5	.7	.7	.6	.7	.7
Mass., R. I., & Conn. ..	.3	.3	1.2	1.1	.7	.7	.9	.9
N. Y. ....	.3	.4	1.1	1.3	.5	.6	.8	1.0
N. J. ....	.4	.4	1.4	1.6	2.0	1.9	1.5	1.6
Pa. ....	.6	.7	1.2	1.4	1.0	.7	1.3	1.4
Ohio ....	.5	.4	1.6	1.7	1.1	.8	1.4	1.2
Ind. ....	.4	.5	1.6	1.6	a/	a/	1.2	1.3
Ill. ....	.5	.5	1.6	1.9	.7	.8	1.3	1.4
Mich. ....	.6	.5	1.6	1.2	1.1	1.3	1.5	1.3
Wis. ....	.4	.3	1.5	1.6	1.6	1.7	1.4	1.4
Minn. ....	.5	.5	.9	.8	.5	.5	1.0	.9
Iowa ....	.5	.4	1.2	1.0	.8	a/	1.2	.9
Mo. ....	.4	.4	.8	.8	a/	a/	.8	.8
N. Dak. ....	.6	.6	a/	a/	a/	a/	1.0	1.1
S. Dak. ....	.6	.7	1.3	a/	a/	a/	1.3	1.4
Nebr. ....	.4	.4	1.3	a/	a/	a/	1.0	1.1
Kans. ....	.3	.4	a/	a/	a/	a/	.7	.8
Del. & Md. ....	.3	.3	1.5	1.7	1.5	1.2	1.3	1.3
Va. ....	.3	.2	1.8	2.2	.5	.5	1.1	1.1
W. Va. ....	.3	.2	a/	a/	a/	a/	.9	.9
N. C. ....	.3	.2	2.0	2.0	a/	a/	1.2	1.0
S. C. ....	.3	.3	1.2	1.4	.8	.5	1.0	.9
Ga. ....	.5	.5	1.5	1.1	a/	a/	1.3	1.0
Fla.	a/	a/	a/	a/	a/	a/	a/	a/
Ky. ....	.3	.4	1.4	1.2	a/	a/	1.0	1.0
Tenn. ....	.3	.3	1.2	.9	a/	a/	.9	.8
Ala. ....	.4	.3	1.4	1.2	a/	a/	1.1	1.0
Miss. ....	.3	.3	a/	a/	a/	a/	.9	.9
Ark. ....	.3	.4	a/	a/	a/	a/	.7	.8
La. ....	.2	.2	a/	a/	a/	a/	.6	.7
Okla. ....	.6	.7	a/	a/	a/	a/	.9	1.0
Texas ....	.6	.7	a/	a/	a/	a/	.9	1.0
Mont. ....	.8	1.1	a/	a/	a/	a/	1.2	1.5
Idaho	1.4	1.3	a/	a/	a/	a/	1.8	1.7
Wyo.	1.1	1.3	a/	a/	a/	a/	1.5	1.7
Colo.	1.5	1.2	a/	a/	a/	a/	1.8	1.6
N. Mex.	1.3	1.1	a/	a/	a/	a/	1.9	1.8
Ariz.	1.1	1.2	a/	a/	a/	a/	1.5	1.8
Utah	1.2	1.3	a/	a/	a/	a/	1.6	1.7
Nev.	1.5	1.4	a/	a/	a/	a/	1.7	1.9
Wash. ....	.9	.8	a/	a/	a/	a/	1.4	1.2
Oreg. ....	.5	.6	a/	a/	a/	a/	.9	1.0
Calif.	1.7	1.9	.5	.5	.5	.5	2.0	2.2
U. S. ....	.57	.58	1.11	1.17	.86	.85	1.23	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, 1969 and 1970 ^{1/}

State	Alfalfa or mixed alfalfa		Clover or mixed clover		Lespedeza		Coastal Bermuda		Other	
	1969	1970	1969	1970	1969	1970	1969	1970	1969	1970
	Percent									
Me., N. H., Vt.	45	42	51	53	-	-	-	-	4	5
Mass., R. I., Conn. . .	40	52	52	39	-	-	-	-	8	9
N. Y.	62	56	27	36	-	-	-	-	11	8
N. J.	82	95	8	5	-	-	-	-	10	-
Pa.	58	60	31	31	-	-	-	-	11	9
Ohio	72	68	24	18	-	-	-	-	4	14
Ind.	89	86	7	4	-	-	-	-	4	10
Ill.	89	95	10	5	-	-	-	-	1	-
Mich.	96	96	1	4	-	-	-	-	-	-
Wis.	89	92	8	7	-	-	-	-	3	1
Minn.	92	93	2	5	-	-	-	-	6	2
Iowa	92	94	4	6	-	-	-	-	4	-
Mo.	87	73	1	8	-	5	-	1	12	13
N. Dak.	84	96	-	-	-	-	-	-	16	4
S. Dak.	94	94	-	-	-	-	-	-	6	6
Nebr.	94	98	-	-	-	-	-	-	6	2
Kans.	92	84	-	-	-	-	-	-	8	16
Del., Md.	63	78	31	22	-	-	-	-	6	-
Va.	54	56	31	26	2	1	-	-	13	17
W. Va.	23	35	58	45	-	-	-	-	19	20
N. C.	20	10	37	37	12	29	10	9	21	15
S. C.	2	1	-	2	2	1	68	55	28	41
Ga.	1	1	2	-	5	-	65	62	27	37
Fla.	a/	a/	a/	a/	a/	a/	a/	a/	a/	a/
Ky.	49	64	34	24	9	2	-	-	8	10
Tenn.	49	35	25	36	13	14	-	-	13	15
Ala.	6	10	-	2	11	-	35	46	48	42
Miss.	8	5	21	15	21	15	18	36	32	29
Ark.	31	31	19	6	18	7	1	11	31	45
La.	29	30	1	3	5	5	24	20	41	42
Okla.	78	81	-	-	4	-	-	-	18	19
Texas	62	57	-	1	-	-	10	10	28	32
Mont.	100	95	-	-	-	-	-	-	-	5
Idaho	99	94	1	6	-	-	-	-	-	-
Wyo.	100	100	-	-	-	-	-	-	-	-
Colo.	100	100	-	-	-	-	-	-	-	-
N. Mex.	98	100	-	-	-	-	-	-	2	-
Ariz.	99	100	-	-	-	-	-	-	1	-
Utah	100	100	-	-	-	-	-	-	-	-
Nev.	100	100	-	-	-	-	-	-	-	-
Wash.	73	89	16	9	-	-	-	-	11	2
Oreg.	65	60	32	25	-	-	-	-	3	15
Calif.	98	93	1	-	-	-	-	-	1	7
U. S.	82	80	10	10	1	1	1	2	6	7

^{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, 1969 and 1970 ^{1/}

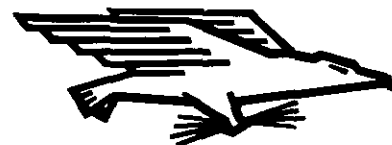
State	Corn silage		Grass silage		Sorghum silage		Other silage	
	1969	1970	1969	1970	1969	1970	1969	1970
	Percent							
Me., N. H., Vt.	57	60	32	33	-	-	11	7
Mass., R. I., Conn.	57	60	29	33	-	-	14	7
N. Y.	53	55	44	38	-	-	3	7
N. J.	61	50	29	47	2	-	8	3
Pa.	64	64	27	30	-	-	9	6
Ohio	35	33	61	58	1	3	3	6
Ind.	34	44	65	56	1	-	-	-
Ill.	37	43	59	55	-	1	4	1
Mich.	39	28	56	72	-	-	5	-
Wis.	44	39	55	60	-	-	1	1
Minn.	53	61	41	39	3	-	3	-
Iowa	43	55	39	36	-	-	10	9
U. S.	51	49	41	45	2	2	6	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.

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