

MILK PRODUCTION

October 12, 1964

SUMMARY

Milk production in the United States during September is estimated at 9,626 million pounds. This is about 1 percent more than the September 1963 output and 2 percent above the 1958-62 average for the month. Cumulative milk production through September was up 1 percent from the corresponding period last year. Relative to population, September production was equal to 1.67 pounds per person daily compared with 1.68 pounds a year earlier. Production per cow averaged 602 pounds -- up 3 percent from September last year and 12 percent above average for the month. Reporters fed 7.6 pounds of grains and concentrates to milk cows on October 1 -- one-half pound more than on that date a year ago.

On October 1, dairy pasture condition for the United States averaged 71 percent of normal for the date, the same as a year earlier. The 1958-62 average for October 1 is 81 percent. Reported condition gained 6 points from September 1, while the 5-year averages show only a 1-point increase during September. Pasture condition improved markedly during September in a broad area from Texas northward to Minnesota and Wisconsin, but the Northeast continued very dry.

Table 1.-Milk per cow and milk production by months, United States, 1964 with comparisons

Month	Milk per cow			Milk production			
	Average 1958-62	1963	1964	Average 1958-62	1963	1964	Change from 1963
	Pounds	Pounds	Pounds	Million pounds	Million pounds	Million pounds	Percent
January.....	549	599	620	9,867	10,065	10,066	0
February....	526	565	608	9,421	9,470	9,842	+3.5
March.....	603	651	681	10,778	10,879	11,007	+1.2
April.....	622	672	704	11,088	11,196	11,346	+1.3
May.....	694	742	767	12,331	12,315	12,330	+0.1
June.....	671	715	734	11,901	11,841	11,790	-0.4
July.....	617	658	675	10,913	10,861	10,824	-0.3
August.....	573	615	636	10,114	10,130	10,177	+0.5
September...	536	582	602	9,450	9,558	9,626	+0.7
October.....	540	584		9,489	9,557		
November....	516	564		9,054	9,205		
December....	547	596		9,580	9,706		
Annual....	6,995	7,545		123,986	124,783		

Table 2.-Monthly milk per cow and milk production
September 1964, with comparisons

State	Monthly milk per cow 1/			Milk production			
	Sept. av. 1958-62 2/	Sept. 1963	Sept. 1964	Sept. av. 1958-62 2/	Sept. 1963	Sept. 1964	Change from 1963
	Pounds	Pounds	Pounds	Million pounds	Million pounds	Million pounds	Percent
Maine.....	-	725	720	-	65	64	- 2
New Hampshire.....	-	650	670	-	32	32	0
Vermont.....	-	620	610	-	156	151	- 3
Massachusetts.....	-	740	740	-	64	62	- 3
Rhode Island.....	-	745	740	-	9.0	8.5	- 6
Connecticut.....	-	765	775	-	58	57	- 2
New York.....	606	656	665	759	791	794	0
New Jersey.....	702	755	765	91	88	86	- 2
Pennsylvania.....	606	650	670	535	546	547	0
Ohio.....	630	684	720	427	425	430	+ 1
Indiana.....	621	685	720	268	271	280	+ 3
Illinois.....	590	630	640	340	314	303	- 4
Michigan.....	671	720	750	433	450	464	+ 3
Wisconsin.....	575	620	620	1,238	1,316	1,311	0
Minnesota.....	424	450	490	542	568	614	+ 8
Iowa.....	515	560	580	441	438	443	+ 1
Missouri.....	462	500	515	306	300	295	- 2
North Dakota.....	429	450	470	120	114	116	+ 2
South Dakota.....	408	445	440	102	101	99	- 2
Nebraska.....	456	490	500	148	138	134	- 3
Kansas.....	448	500	510	151	151	146	- 3
Delaware.....	-	600	625	-	14.4	14.4	0
Maryland.....	597	635	650	130	134	135	+ 1
Virginia.....	542	555	575	181	170	168	- 1
West Virginia.....	426	435	442	55	48	47	- 2
North Carolina.....	501	530	565	136	132	138	+ 5
South Carolina.....	415	435	465	46	43	43	0
Georgia.....	398	425	460	87	81	83	+ 2
Florida.....	522	590	620	98	104	109	+ 5
Kentucky.....	459	520	520	232	248	238	- 4
Tennessee.....	421	430	450	209	203	201	- 1
Alabama.....	337	376	392	83	80	79	- 1
Mississippi.....	303	340	355	111	102	100	- 2
Arkansas.....	366	385	405	81	72	70	- 3
Louisiana.....	-	370	400	-	81	83	+ 2
Oklahoma.....	457	530	545	117	111	108	- 3
Texas.....	406	470	508	235	240	245	+ 2
Montana.....	460	470	470	37	32	31	- 3
Idaho.....	636	660	655	127	127	123	- 3
Wyoming.....	508	550	555	15.3	14.2	13.9	- 2
Colorado.....	536	610	630	66	67	65	- 3
New Mexico.....	-	550	560	-	22	23	+ 5
Arizona.....	-	770	810	-	39	42	+ 8
Utah.....	631	670	685	60	60	59	- 2
Nevada.....	617	720	750	9.2	10.1	10.5	+ 4
Washington.....	678	730	754	159	161	163	+ 1
Oregon.....	566	585	590	91	83	81	- 2
California.....	798	845	893	654	672	704	+ 5
Alaska.....	-	730	775	-	1.9	1.9	0
Hawaii.....	-	735	790	-	10.2	11.3	+11
United States.....	536	582	602	9,450	9,558	9,626	+ 0.7

1/ Monthly rate based on all milk cows on farms (in milk or dry).
2/ Five-year averages not available for States where not shown.

September milk production about 1 percent above a year ago

United States milk production in September was 9,626 million pounds. The estimated National total was nearly 1 percent above the quantity produced during September 1963 and about 2 percent more than the 1958-62 average for the month. On a daily basis, September milk production was down 2 percent from August. This is about the same seasonal decline as last year and compares with the average August-to-September decline of 3 percent. Cumulative production in 1964 through September amounted to 97,008 million pounds, 1 percent more than in the corresponding period both last year and the 1958-62 average. Relative to population, September milk production was equivalent to 1.67 pounds per person daily compared with 1.68 pounds a year earlier.

September production was at record low levels in 16 States and second lowest in 4. By contrast, September milk production was at record high levels in 10 States and was exceeded by only one other year in 6.

Monthly rate per cow 3 percent above September last year

Milk production per cow for September averaged 602 pounds -- up 3 percent from a year earlier and 12 percent above the 1958-62 average for the month. Based on the daily rate per cow, September output was 2 percent below August this year -- the same seasonal decline as last year. The average change is a reduction of 3 percent. Production per cow was at a record high in all but 6 States. California led all States in output per cow with 893 pounds, followed by Arizona with 810 and Hawaii with 790. Alaska and Connecticut cows were producing milk at the rate of 775 pounds.

Grain fed per cow up one-half pound

Reporters fed milk cows an average of 7.6 pounds of grains and concentrates on October 1. This is one-half pound more per cow than was fed on October 1 last year. The 1958-62 average quantity fed per cow on October 1 is 6.0 pounds. Milk cows in 6 States received 10 or more pounds of grains and concentrates. Feeding of grain and concentrates was at a heavier rate than a year earlier in 34 States.

September milk-feed price ratio slightly below last year

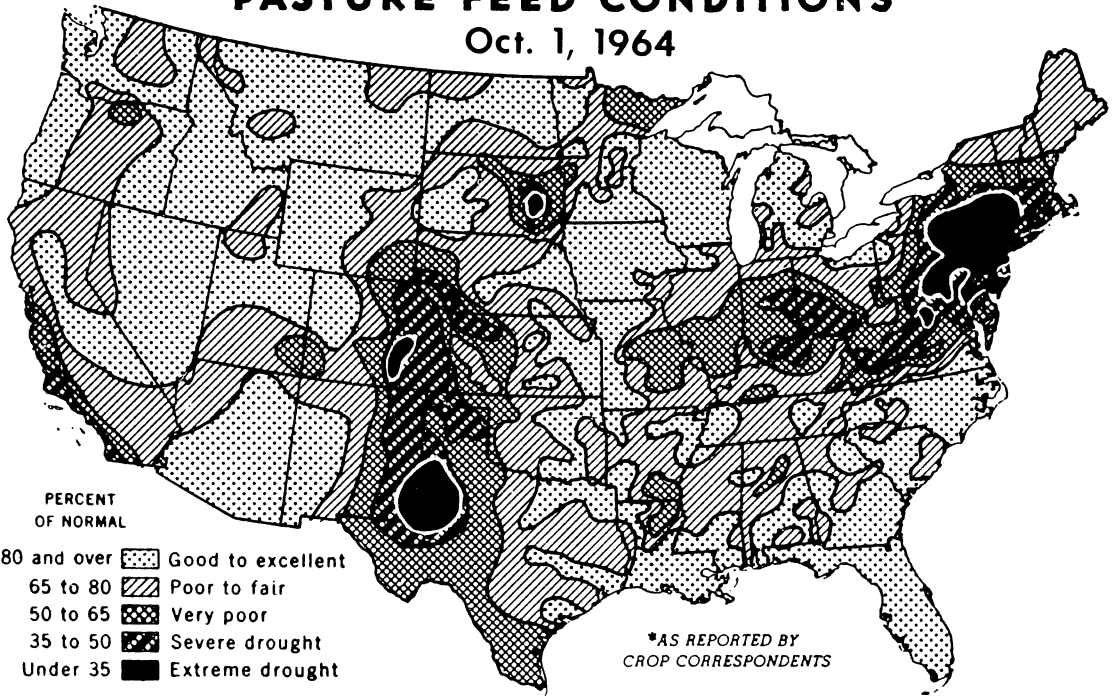
The milk-feed price ratio for September, at 1.40, was only fractionally below the 1.41 for September last year, but was 5 percent below the 1958-62 average for the month. Compared with a year earlier, the smaller ratio resulted from lower wholesale milk prices, as the value of grain and concentrates was unchanged. The September ratio was 3 percent more than in August compared with a 5-percent increase at this season last year. In cream-producing areas, the September milkfat-feed price ratio was 23.2, compared with 22.8 a year earlier and 25.0, the 5-year average for the month.

Dairy pastures continue short -- 10 points below average

Pasture feed continued short through September in most of the Nation, although there was marked improvement in North Central areas. On October 1, dairy pasture condition for the United States averaged 71 percent of normal for the date. This is

PASTURE FEED CONDITIONS*

Oct. 1, 1964



- PERCENT OF NORMAL
- 80 and over Good to excellent
 - 65 to 80 Poor to fair
 - 50 to 65 Very poor
 - 35 to 50 Severe drought
 - Under 35 Extreme drought

*AS REPORTED BY CROP CORRESPONDENTS

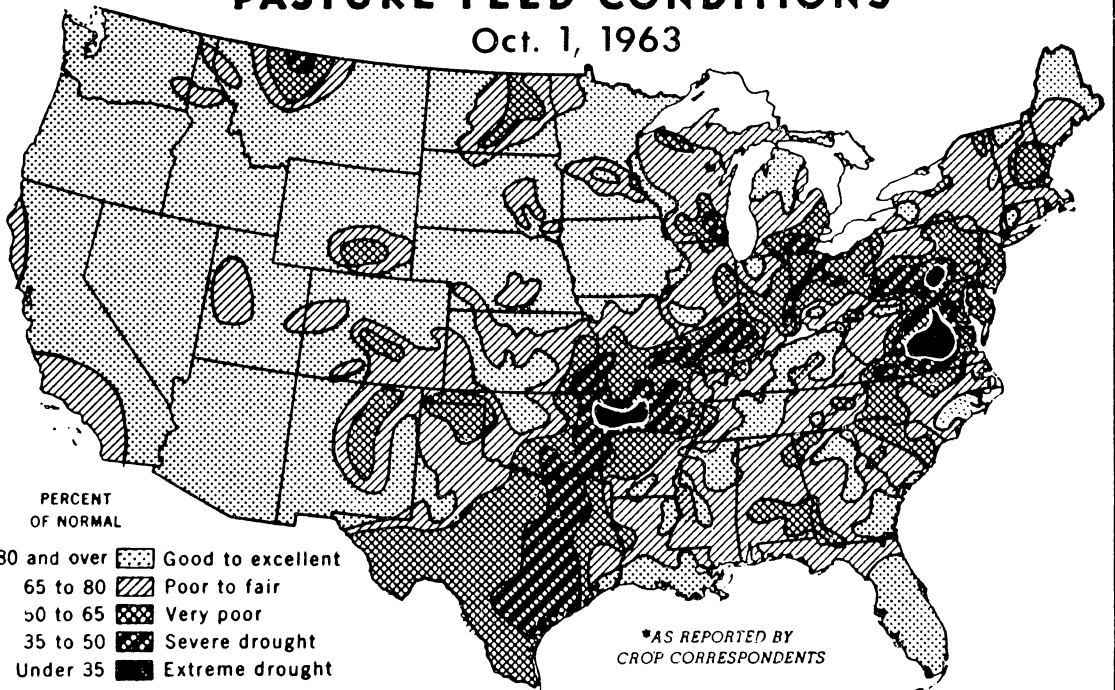
* INDICATES CURRENT SUPPLY OF PASTURE FEED FOR GRAZING RELATIVE TO THAT EXPECTED FROM EXISTING STANDS UNDER VERY FAVORABLE WEATHER CONDITIONS

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the same as a year earlier, but 10 points below the October 1, 1958-62 average of 81 percent. Reported condition of dairy pastures gained 6 points from September 1, while the 5-year averages show only a 1-point increase during September.

September rainfall was extremely variable -- quite heavy in some areas and very light in others. Above-normal rainfall greatly improved prospects for fall pasture feed in a broad area from Texas northward through Minnesota and Wisconsin, also through the Ohio Valley. In the Northeast, pastures made little growth, with September rainfall less than one-half of normal from northern Pennsylvania through New York and most of New England. In the West, less than one-half inch of rain fell in September over a broad area including major parts of California, Oregon, Nevada, Utah, Idaho, Wyoming, and Montana. Fall pasture growth was slowed by below-normal temperatures during September in northern areas.

In most of the North Atlantic States, pasture feed dwindled further during September and many dairy herds were entirely on supplemental roughage by the end of the month. Reported pasture condition on October 1 was the lowest on record for the date in New Jersey, equal to the record 1939 low in New York and the lowest since 1932 in Pennsylvania. However, prospects for fall pasture feed were improved by heavy rains at the end of September in New Jersey and southeastern Pennsylvania.

Table 3.-Dairy pasture feed condition, as percentage of normal, October 1, 1964, with comparisons ^{1/}

State and division	Oct. 1, av. 1958-62	Oct. 1, 1963	Oct. 1, 1964	State and division	Oct. 1, av. 1958-62	Oct. 1, 1963	Oct. 1, 1964
	Percent	Percent	Percent		Percent	Percent	Percent
Me.	86	77	71	N. C.	82	66	85
N. H.	89	62	60	S. C.	76	67	83
Vt.	87	73	69	Ga.	79	73	80
Mass.	85	64	45	Fla.	84	79	86
R. I.	86	80	72	S. Atl. ..	79	62	67
Conn.	85	72	50	Ky.	83	78	57
N. Y.	76	73	43	Tenn.	81	74	76
N. J.	79	53	28	Ala.	80	67	76
Pa.	72	55	45	Miss.	80	76	76
N. Atl.	76	63	46	Ark.	82	54	73
Ohio.....	77	57	57	La.	84	80	82
Ind.	82	60	58	Okla.	87	61	75
Ill.	81	67	66	Tex.	82	53	64
Mich.	85	69	81	S. Cent. .	83	65	70
Wis.	85	71	84	Mont.	73	88	85
E. N. Cent. .	83	66	73	Idaho.....	83	91	83
Minn.	82	84	80	Wyo.	77	84	77
Iowa.....	91	90	90	Colo.	77	81	54
Mo.	74	59	74	N. Mex.	81	79	55
N. Dak.	64	75	78	Ariz.	80	86	86
S. Dak.	71	84	65	Utah.....	73	87	78
Nebr.	83	84	74	Nev.	79	89	87
Kans.	87	72	71	Wash.	75	89	90
W. N. Cent. .	82	80	78	Oreg.	80	89	82
Del.	76	59	40	Calif.	76	82	70
Md.	71	57	37	West.	77	85	75
Va.	81	42	60	U. S.	81	71	71
W. Va.	76	69	56				

^{1/} Indicates current supply of feed for grazing relative to that expected from existing stands under very favorable weather conditions. U. S. averages may differ from those published in Crop Production in that States are combined with dairy rather than all livestock weights.

Table 4.-Grain and other concentrates fed daily per milk cow in herds kept by reporters, October 1, 1964, with comparisons

State	Oct. 1, av. 1958-62	Oct. 1, 1963	Oct. 1, 1964	State	Oct. 1, av. 1958-62	Oct. 1, 1963	Oct. 1, 1964
	<u>Lb.</u>	<u>Lb.</u>	<u>Lb.</u>		<u>Lb.</u>	<u>Lb.</u>	<u>Lb.</u>
Maine.....	7.0	8.6	8.6	West Virginia.....	4.0	5.0	5.0
New Hampshire...	6.8	8.2	8.3	North Carolina....	6.4	7.8	8.4
Vermont.....	6.1	7.7	7.3	South Carolina....	5.2	5.6	5.5
Massachusetts...	7.4	9.0	10.0	Georgia.....	5.8	8.1	9.0
Rhode Island....	8.4	9.7	9.5	Florida.....	4.0	6.3	6.5
Connecticut.....	8.1	9.5	10.3				
New York.....	7.0	8.0	8.3	Kentucky.....	5.0	6.0	6.5
New Jersey.....	8.1	10.3	10.4	Tennessee.....	5.1	5.5	6.4
Pennsylvania....	8.4	9.9	10.6	Alabama.....	4.9	6.6	7.0
				Mississippi.....	3.7	3.8	3.8
Ohio.....	7.3	8.9	9.5	Arkansas.....	4.7	5.4	6.2
Indiana.....	6.9	8.4	9.0	Louisiana.....	4.3	5.0	6.0
Illinois.....	6.5	7.7	8.2	Oklahoma.....	6.3	7.4	8.5
Michigan.....	7.3	9.3	9.2	Texas.....	5.2	5.2	5.5
Wisconsin.....	5.7	7.0	6.7				
				Montana.....	4.0	4.3	4.1
Minnesota.....	5.1	5.9	7.6	Idaho.....	4.6	5.5	5.8
Iowa.....	6.3	7.3	7.2	Wyoming.....	3.8	4.0	3.6
Missouri.....	5.9	7.1	7.3	Colorado.....	5.8	6.6	6.1
North Dakota....	4.9	5.6	6.8	New Mexico.....	5.2	5.5	7.0
South Dakota....	4.2	4.2	5.0	Arizona.....	5.7	6.2	6.3
Nebraska.....	5.5	6.4	6.0	Utah.....	5.6	7.1	8.0
Kansas.....	6.5	7.1	6.9	Nevada.....	5.3	6.2	7.5
				Washington.....	6.3	6.9	7.1
Delaware.....	8.3	9.5	10.8	Oregon.....	5.1	5.5	6.0
Maryland.....	8.3	9.7	10.7	California.....	7.1	8.0	9.0
Virginia.....	6.9	8.0	9.3	United States.....	6.0	7.1	7.6

Table 5.-Average milk price received by farmers and value of concentrate ration fed to milk cows, by regions, September 1964, with comparisons

Region	Milk price per 100 pounds				Ration value per 100 pounds			
	Sept. av. 1958-62	Sept. 1963	Aug. 1964	Sept. 1964	Sept. av. 1958-62	Sept. 1963	Aug. 1964	Sept. 1964
	<u>Dol.</u>	<u>Dol.</u>	<u>Dol.</u>	<u>Dol.</u>	<u>Dol.</u>	<u>Dol.</u>	<u>Dol.</u>	<u>Dol.</u>
N. Atl.	5.10	4.91	4.75	4.91	3.50	3.62	3.52	3.56
E. N. Cent. ..	3.82	3.80	3.64	3.82	2.70	2.82	2.82	2.88
W. N. Cent. ..	3.57	3.53	3.42	3.58	2.27	2.46	2.42	2.46
S. Atl.	5.44	5.45	5.19	5.38	3.34	3.46	3.35	3.33
S. Cent.	4.68	4.74	4.41	4.67	3.02	3.18	3.13	3.14
West.	4.40	4.32	4.18	4.33	3.13	3.16	3.20	3.26
U. S.								
Milk areas....	4.35	4.29	4.10	4.28	2.93	3.05	3.01	3.05
Cream areas...	-	-	-	-	2.42	2.56	2.50	2.54
Milk and cream areas.....	-	-	-	-	2.89	3.03	2.99	3.03

Table 6.-Milk-feed and milkfat-feed price ratios, by regions, September 1964, with comparisons

Region	Milk-feed ratio 1/				Milkfat-feed ratio 2/			
	Sept. av. 1958-62	Sept. 1963	Aug. 1964	Sept. 1964	Sept. av. 1958-62	Sept. 1963	Aug. 1964	Sept. 1964
N. Atl.	1.46	1.36	1.35	1.38	-	-	-	-
E. N. Cent. ..	1.41	1.35	1.29	1.33	20.6	19.7	19.6	19.5
W. N. Cent. ..	1.57	1.43	1.41	1.46	27.4	24.1	24.5	24.4
S. Atl.	1.63	1.58	1.55	1.62	-	-	-	-
S. Cent.	1.55	1.49	1.41	1.49	17.0	16.4	16.4	16.4
West.	1.41	1.37	1.31	1.33	18.9	18.4	18.1	17.7
U. S.	1.48	1.41	1.36	1.40	25.0	22.8	23.4	23.2

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.

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Pasture feed also continued very short through September in Delaware, Maryland, Virginia and West Virginia. Heavy late September rains in this area will stimulate fall growth. From eastern Virginia southward to Florida, heavy rainfall associated with hurricanes maintained good pasture growth through September.

Pasture feed improved during September in all North Central States except Ohio and Indiana, where there was practically no rain until the third week of the month. Heavy rains in Wisconsin and Minnesota in late August and early September produced remarkable recovery of pastures in areas where severe drought had prevailed since June. By October 1, reported pasture condition for each of these States was near the 5-year average for the date. Pastures in Illinois, Iowa, and Missouri also improved markedly during September. Despite the improvement in most States reported condition of pastures was still below the 5-year average for October 1 in all North Central States except Missouri and North Dakota.

Pasture condition was also reported below the 5-year average for October 1 in each of the South Central States. In Kentucky, Tennessee, Alabama, and Mississippi, some areas were short of moisture until the widespread heavy rains at the end of September. The eastern half of Texas and most of Oklahoma and Arkansas received heavy rains beginning about September 17 and pastures made considerable recovery by the end of the month. Soil moisture in the South Central States is unusually favorable for starting fall and winter pasture crops, in contrast to dry fall weather at this time a year ago.

September rainfall was very light in the West and pasture condition declined during the month in all States except New Mexico. In northern Mountain States, range feed is very dry now, but rains earlier in the season provided good growth for fall and winter grazing. Pasture feed continues very short in eastern areas of Colorado and New Mexico. Most of California received no rainfall during September and dryland pastures are in poor condition, particularly in coastal areas from San Francisco southward. September rainfall maintained good grazing in western Washington but dryland pastures in central areas of both Washington and Oregon continued short.