

# MILK PRODUCTION

August 12, 1964

Special in this issue  
JUNE MILK COW NUMBERS, page 6

## SUMMARY

July milk production in the United States is estimated at 10,824 million pounds, slightly below July 1963 and 1 percent below the 1958-62 average for the month. Production for June has been revised upward to 11,790 million pounds, now 0.4 percent less than in June last year. July milk production amounted to 1.82 pounds per person daily, compared with 1.85 pounds a year earlier. Milk production per cow averaged 675 pounds during July, 2.6 percent above the average rate in July 1963.

Reported condition of dairy pastures for the United States averaged 69 percent of normal on August 1. This is 2 points lower than the relatively poor condition a year ago and the lowest U. S. average for August 1 since 1954. Pasture condition dropped 9 points during July this year, compared with the 5-year average decline of 4 points during the month. Unusually hot, dry weather during July in most of the Nation dried pastures rapidly

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	+3.9
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	1/734	11,901	11,841	1/11,790	-0.4
July.....	617	658	675	10,913	10,861	10,824	-0.3
August.....	573	615		10,114	10,130		
September....	536	582		9,450	9,558		
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		
1/Revised ...							

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

State	Monthly milk per cow <sup>1/</sup>				Milk production				
	July av. 1958-62 <sup>2/</sup>	July 1963	June 1964 <sup>3/</sup>	July 1964	July av. 1958-62 <sup>2/</sup>	July 1963	June 1964 <sup>3/</sup>	July 1964	Change from July 1963
	Pounds	Pounds	Pounds	Pounds	Million pounds	Million pounds	Million pounds	Million pounds	Percent
Maine.....	-	765	830	780	-	69	74	69	0
New Hampshire....	-	675	800	700	-	34	39	34	0
Vermont.....	-	670	790	680	-	170	198	170	0
Massachusetts....	-	770	815	785	-	67	68	66	- 1
Rhode Island.....	-	770	815	780	-	9.3	9.4	9.0	- 3
Connecticut.....	-	760	795	775	-	58	58	57	- 2
New York.....	667	708	854	705	835	857	1,023	845	- 1
New Jersey.....	713	769	839	790	93	90	94	88	- 2
Pennsylvania.....	629	680	775	695	556	575	636	570	- 1
Ohio.....	669	742	810	780	457	464	488	469	+ 1
Indiana.....	683	775	810	805	298	308	316	314	+ 2
Illinois.....	673	750	815	760	392	377	391	363	- 4
Michigan.....	708	760	845	780	459	477	523	483	+ 1
Wisconsin.....	717	725	875	740	1,546	1,542	1,851	1,565	+ 1
Minnesota.....	647	650	830	670	828	822	1,042	840	+ 2
Iowa.....	650	680	760	690	560	537	581	527	- 2
Missouri.....	555	580	620	600	370	352	359	346	- 2
North Dakota.....	624	665	706	678	176	170	174	167	- 2
South Dakota.....	554	575	600	570	140	132	134	128	- 3
Nebraska.....	587	590	625	600	193	168	170	163	- 3
Kansas.....	489	510	565	540	166	155	164	156	+ 1
Delaware.....	-	640	660	645	-	15.4	15.2	14.8	- 4
Maryland.....	593	615	620	620	129	130	129	128	- 2
Virginia.....	553	565	565	585	185	174	168	173	- 1
West Virginia....	476	490	484	490	63	55	52	52	- 5
North Carolina...	508	550	545	570	139	138	134	139	+ 1
South Carolina...	398	435	445	460	45	44	41	43	- 2
Georgia.....	407	460	450	485	90	88	82	88	0
Florida.....	515	590	630	615	97	104	111	108	+ 4
Kentucky.....	504	555	580	580	255	266	267	266	0
Tennessee.....	460	490	470	480	229	233	213	216	- 7
Alabama.....	364	391	400	402	90	84	82	82	- 2
Mississippi.....	328	365	360	370	121	111	103	105	- 5
Arkansas.....	417	445	465	440	94	85	81	77	- 9
Louisiana.....	-	345	350	375	-	76	74	78	+ 3
Oklahoma.....	513	570	585	575	133	122	117	115	- 6
Texas.....	443	481	516	515	259	249	253	251	+ 1
Montana.....	572	590	630	600	45	41	42	40	- 2
Idaho.....	749	760	810	770	151	146	154	145	- 1
Wyoming.....	638	695	710	695	19.4	18.0	17.8	17.4	- 3
Colorado.....	622	670	690	690	77	74	72	72	- 3
New Mexico.....	-	600	610	600	-	24	25	25	+ 4
Arizona.....	-	800	850	835	-	41	44	43	+ 5
Utah.....	700	725	730	730	66	65	64	64	- 2
Nevada.....	662	725	785	800	9.9	10.9	11.0	11.2	+ 3
Washington.....	746	800	910	835	175	178	197	180	+ 1
Oregon.....	701	730	770	735	113	105	107	102	- 3
California.....	869	927	930	952	712	738	729	746	+ 1
Alaska.....	-	805	825	840	-	2.1	2.1	2.1	0
Hawaii.....	-	730	800	820	-	10.2	10.8	11.2	+10
United States....	617	658	734	675	10,913	10,861	11,790	10,824	- 0.3

<sup>1/</sup> Monthly rate based on all milk cows on farms (in milk or dry).  
<sup>2/</sup> Five-year averages not available for States where not shown.  
<sup>3/</sup> Revised.

#### July milk production slightly below a year earlier

July milk production in the United States is estimated at 10,824 million pounds -- slightly below July 1963 and 1 percent below the 1958-62 average for the month. As a result of the mid-year review of milk cow numbers, June milk production has been revised upward to 11,790 million pounds, 0.4 percent less than in June 1963. On a daily basis, milk production declined 11 percent from June to July this year, about the same seasonal decline as last year. July milk production amounted to 1.82 pounds per person daily, compared with 1.85 pounds a year earlier.

Milk production in July was below a year earlier in 28 States. Small gains over July 1963 were recorded in several important dairy States, including Michigan, Wisconsin, Minnesota, and California. New record highs in July milk production were set in 7 States -- Florida, Louisiana, New Mexico, Arizona, Nevada, California, and Hawaii. Production dropped to new record lows for July in 17 States.

#### Milk output per cow up 3 percent

The July output per cow, at 675 pounds, was 2.6 percent above the 658 pounds produced during July 1963 and 9 percent above the 5-year average July production of 617 pounds. The average daily rate of 21.8 pounds per cow in July was down 11 percent from June, the same seasonal decline as in 1963. Production per cow was at a record level for July in 44 States. The 5 leading States in July output per cow were California, Alaska, Washington, Arizona, and Hawaii.

#### Grain and concentrates fed on August 1 up 9 percent

Grain and concentrates fed to milk cows on August 1 averaged 7.3 pounds per cow, compared with 6.7 pounds a year earlier and the August 1 1958-62 average of 5.8 pounds. In two States, Pennsylvania and Maryland, milk cows were being fed at an average daily rate of 10 or more pounds, and in 9 States, feeding rates were 9 pounds or more. Compared with a year earlier, feeding rates increased in 38 States and decreased in 6.

#### July milk-feed price ratio up 3 percent

The milk-feed price ratio in July was 1.33, compared with 1.29 a year earlier -- up 3 percent. The 1958-62 average for July is also 1.33. Seasonally, the July ratio was up 6 percent from June, compared with the 5-percent increase in 1963; the 5-year average change from June to July is 4 percent. The more favorable July ratio resulted from an increase in whole milk prices and a decline in the value of grain and concentrates. In cream-selling areas, the July milkfat-feed price ratio was 23.5, compared with 22.6 a year earlier and the 5-year average of 24.1.

#### August 1 dairy pastures poorest since 1954

Unusually hot, dry weather in most of the Nation during July dried pastures rapidly. Reported condition of dairy pastures for the United States averaged 69 percent of normal on August 1. This is 2 points lower than the relatively poor condition reported a year ago and the lowest U. S. average for August 1 since 1954. Dairy pasture condition dropped 9 points during July this year, compared with a 1958-62 average decline of 4 points during the month.

July temperatures were above normal in most of the Nation except the Southeast and the Northwest. During the last half of the month a heat wave persisted from the Rocky Mountains to the Appalachians, with some maximum temperatures above 100 degrees as far north as the Dakotas. Intermittent periods with maximums in the 90's caused pasture feed conditions to deteriorate from Minnesota eastward to New England.

Rainfall was very spotty during July and below normal in a major part of the Nation. Rainfall was above-normal in the Southeast and Gulf Coast areas, the Northwest parts of Arizona and New Mexico and several smaller areas. Less than one-half of normal July rainfall was received in a large South Central area centered in Texas, and from California northeastward across the Mountain States.

In the North Atlantic Region, pastures greened up after good rains in some areas early in July but were dried by high temperatures later in the month. On August 1, pasture feed was still very short in southern New England and eastern areas of New York and Pennsylvania, with supplemental feeding necessary. The severe drought which developed during June in Delaware, Maryland, and Virginia was relieved by good rains in much of this area beginning July 8. Pastures greened up after the rains but are still quite short. In western and northern areas of Virginia, severe drought continued through July, with the forage situation as serious as in 1963 in some localities. From southern Virginia southward through Florida, ample July rainfall and below-normal temperatures were unusually favorable for summer pasture growth.

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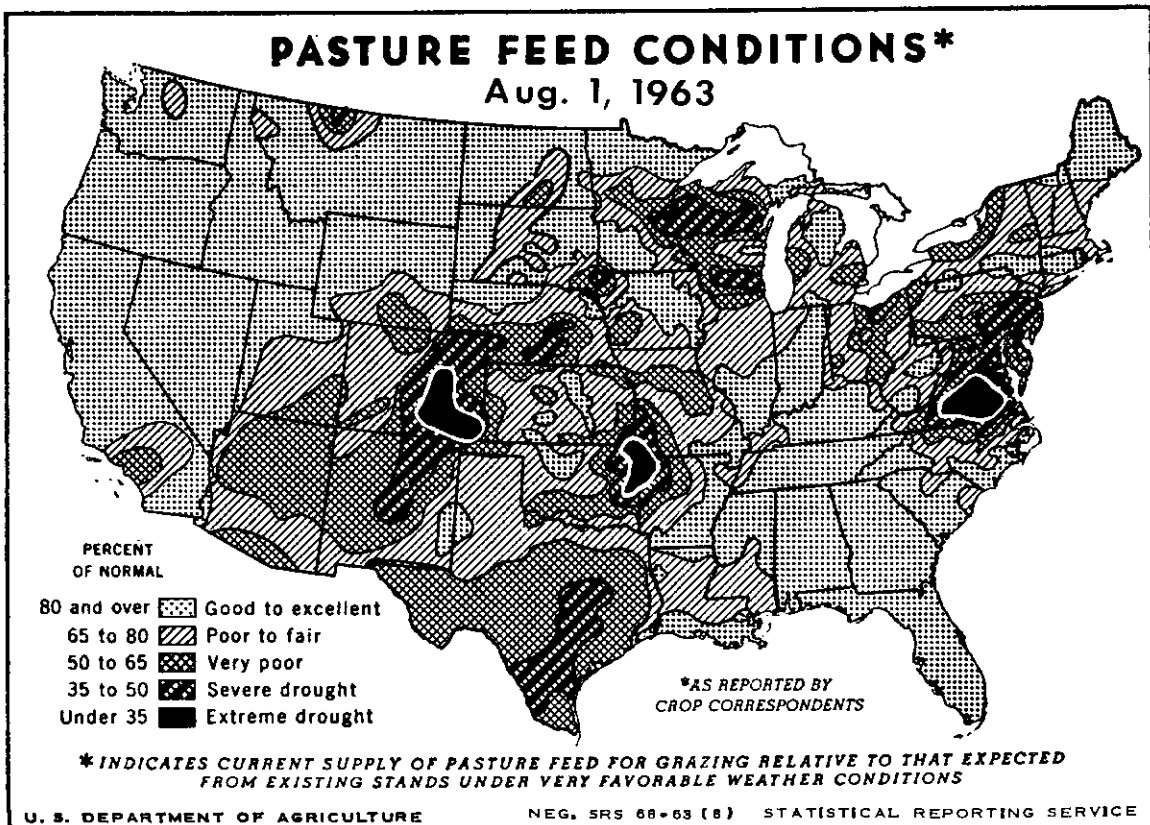
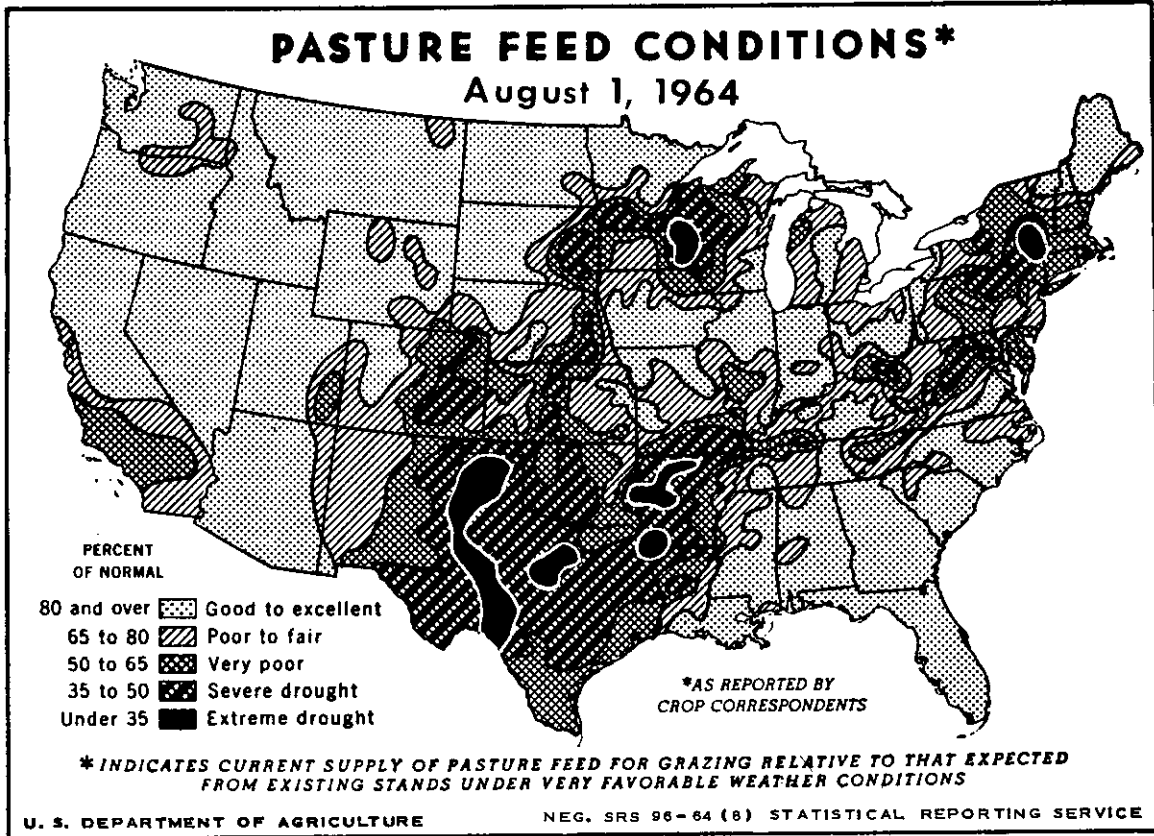


Table 3.-Grain and other concentrates fed daily per milk cow in herds kept by reporters, August 1, 1964, with comparisons

State	Aug. 1, av. 1958-62	Aug. 1, 1963	Aug. 1, 1964	State	Aug. 1, av. 1958-62	Aug. 1, 1963	Aug. 1, 1964
	Lb.	Lb.	Lb.		Lb.	Lb.	Lb.
Maine.....	6.8	7.9	8.6	West Virginia.....	3.7	4.4	4.7
New Hampshire...	6.5	8.1	9.0	North Carolina....	6.1	7.4	8.0
Vermont.....	5.6	6.9	7.2	South Carolina....	5.3	6.0	6.0
Massachusetts...	7.3	8.0	9.4	Georgia.....	5.6	7.6	8.6
Rhode Island....	7.9	8.2	9.5	Florida.....	3.8	5.0	6.0
Connecticut.....	7.9	9.1	9.0	Kentucky.....	4.8	5.7	6.7
New York.....	6.5	7.5	7.5	Tennessee.....	4.7	5.0	5.8
New Jersey.....	7.8	10.3	9.6	Alabama.....	4.5	5.5	6.0
Pennsylvania....	8.0	9.7	10.3	Mississippi.....	3.5	3.5	3.6
Ohio.....	7.1	8.9	9.2	Arkansas.....	4.6	6.0	6.1
Indiana.....	6.3	8.0	8.6	Louisiana.....	3.9	4.7	5.5
Illinois.....	6.5	7.7	7.3	Oklahoma.....	5.8	6.2	7.4
Michigan.....	6.8	8.9	9.4	Texas.....	4.5	4.4	5.5
Wisconsin.....	5.5	6.0	6.3	Montana.....	4.2	4.7	4.5
Minnesota.....	5.2	5.7	7.0	Idaho.....	4.5	5.5	5.6
Iowa.....	6.4	7.5	7.3	Wyoming.....	4.1	4.0	4.0
Missouri.....	5.8	6.2	7.2	Colorado.....	5.7	6.4	7.1
North Dakota....	4.3	5.9	6.3	New Mexico.....	5.3	6.0	6.9
South Dakota....	3.8	4.9	5.5	Arizona.....	5.5	5.5	6.5
Nebraska.....	5.3	5.7	6.7	Utah.....	5.9	5.3	6.5
Kansas.....	5.7	6.3	7.4	Nevada.....	4.5	6.0	7.5
Delaware.....	7.3	8.5	9.5	Washington.....	5.8	6.6	6.4
Maryland.....	8.2	9.6	10.0	Oregon.....	5.1	5.2	6.2
Virginia.....	6.3	7.9	9.0	California.....	7.2	8.5	8.5
				United States.....	5.8	6.7	7.3

Table 4.-Average milk price received by farmers and value of concentrate ration fed to milk cows, by regions, July 1964, with comparisons

Region	Milk price per 100 pounds				Ration value per 100 pounds			
	July av. 1958-62	July 1963	June 1964	July 1964	July av. 1958-62	July 1963	June 1964	July 1964
	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.
N. Atl. ....	4.60	4.46	4.06	4.53	3.52	3.57	3.52	3.52
E. N. Cent. ..	3.47	3.48	3.45	3.50	2.72	2.77	2.75	2.70
W. N. Cent. ..	3.28	3.27	3.22	3.30	2.31	2.47	2.44	2.41
S. Atl. ....	5.19	5.20	5.12	5.23	3.38	3.48	3.40	3.40
S. Cent. ....	4.25	4.25	4.19	4.24	3.07	3.17	3.10	3.10
West. ....	4.06	4.09	4.07	4.13	3.15	3.20	3.18	3.19
U. S.								
Milk areas....	3.93	3.91	3.78	3.94	2.96	3.04	2.99	2.97
Cream areas...	-	-	-	-	2.46	2.57	2.51	2.48
Milk and cream areas.....	-	-	-	-	2.92	3.01	2.98	2.96

Table 5.-Milk-feed and milkfat-feed price ratios, by regions, July 1964, with comparisons

Region	Milk-feed ratio 1/				Milkfat-feed ratio 2/			
	July av. 1958-62	July 1963	June 1964	July 1964	July av. 1958-62	July 1963	June 1964	July 1964
N. Atl. ....	1.31	1.25	1.15	1.29	-	-	-	-
E. N. Cent. ..	1.28	1.26	1.25	1.30	20.1	20.0	20.1	20.3
W. N. Cent. ..	1.42	1.32	1.32	1.37	26.2	23.8	24.3	24.5
S. Atl. ....	1.54	1.49	1.51	1.54	-	-	-	-
S. Cent. ....	1.39	1.34	1.35	1.37	16.4	16.0	16.5	16.5
West. ....	1.29	1.28	1.28	1.29	18.5	18.0	18.1	18.2
U. S. ....	1.33	1.29	1.26	1.33	24.1	22.6	23.3	23.5

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.-Dairy pasture feed condition, as percentage of normal, August 1, 1964, with comparisons 1/

State and division	Aug. 1, av. 1958-62	Aug. 1, 1963	Aug. 1, 1964	State and division	Aug. 1, av. 1958-62	Aug. 1, 1963	Aug. 1, 1964
	Percent	Percent	Percent		Percent	Percent	Percent
Me. ....	90	76	77	N. C. ....	86	77	81
N. H. ....	87	63	63	S. C. ....	80	86	85
Vt. ....	84	74	73	Ga. ....	81	93	89
Mass. ....	84	73	57	Fla. ....	88	90	89
R. I. ....	86	90	68	S. Atl. ..	83	68	75
Conn. ....	88	81	58	Ky. ....	89	88	73
N. Y. ....	75	69	56	Tenn. ....	86	91	75
N. J. ....	71	45	64	Ala. ....	80	90	86
Pa. ....	75	62	64	Miss. ....	76	82	82
N. Atl. ....	78	67	62	Ark. ....	85	66	45
Ohio.....	85	66	76	La. ....	77	78	73
Ind. ....	89	81	87	Okla. ....	90	64	50
Ill. ....	86	75	75	Tex. ....	83	58	43
Mich. ....	78	71	75	S. Cent..	85	74	62
Wis. ....	79	50	52	Mont. ....	72	91	91
E. N. Cent. .	82	64	68	Idaho.....	84	94	92
Minn. ....	80	77	61	Wyo. ....	78	79	83
Iowa.....	93	77	85	Colo. ....	82	52	61
Mo. ....	82	64	71	N. Mex. ....	78	63	51
N. Dak. ....	69	83	86	Ariz. ....	82	72	84
S. Dak. ....	72	78	64	Utah.....	71	76	86
Nebr. ....	88	66	69	Nev. ....	79	93	89
Kans. ....	89	69	64	Wash. ....	76	91	92
W. N. Cent. .	84	74	71	Oreg. ....	84	93	88
Del. ....	77	48	60	Calif. ....	77	91	76
Md. ....	78	50	65	West. ....	78	85	81
Va. ....	86	39	65	U. S. ....	82	71	69
W. Va. ....	85	71	68				

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

#### MILK COWS ON FARMS, JUNE 1964

The number of milk cows in the United States in June is estimated at 16,072,000, about 3 percent below a year earlier, according to the Crop Reporting Board. The decrease from June 1962 to June 1963 was also 3 percent. Milk cow numbers have declined each year since 1953, with an average annual decline of 2.7 percent.

Milk cow numbers were less than in June 1963 in all regions of the country, with decreases ranging from 1.8 percent in the East North Central to 5.6 percent in the South Central.

Of the milk cows on United States farms in June, 26 percent were in the East North Central Region and 23 percent were in the West North Central. The North Atlantic Region had 17 percent of the milk cows; South Central, 15 percent; West, 11 percent; and the South Atlantic States, 8 percent. These percentages are unchanged from a year ago.

Wisconsin led all States in the number of milk cows; Minnesota ranked second, followed by New York, Pennsylvania and California. These 5 States account for 38 percent of the Nation's milk cows.

June milk cow numbers were below a year earlier in all except 3 States -- Florida, with no change; and New Mexico and Arizona, with 2-percent increases. The decline from June 1963 was only 1 percent in several important dairy States, including New York, Michigan, Wisconsin and Minnesota.

Table 7.-Number of milk cows on farms, by States, June 1964, with comparisons <sup>1/</sup>

State and division	1958	1959	1960	1961	1962	1963	1964	1964 as percent. of 1963
	Thou.	Thou.	Thou.	Thou.	Thou.	Thou.	Thou.	Percent
Me. ....	98	95	95	95	92	90	89	99
N. H. ....	53	51	51	51	51	50	49	98
Vt. ....	262	258	258	260	257	253	250	99
Mass. ....	98	95	94	94	91	88	84	95
R. I. ....	16	16	15	14	12.4	12.1	11.5	95
Conn. ....	94	90	88	86	79	76	73	96
N. Y. ....	1,270	1,245	1,248	1,250	1,256	1,216	1,198	99
N. J. ....	134	132	132	128	124	117	112	96
Pa. ....	900	883	884	880	871	850	820	96
N. Atl. ....	2,925	2,865	2,865	2,858	2,833	2,752	2,686	97.6
Ohio. ....	720	691	690	674	651	627	603	96
Ind. ....	482	446	431	421	411	398	390	98
Ill. ....	660	606	570	558	540	505	480	95
Mich. ....	680	649	640	638	637	627	619	99
Wis. ....	2,220	2,160	2,138	2,138	2,138	2,127	2,115	99
E. N. Cent. ....	4,762	4,552	4,469	4,429	4,377	4,284	4,207	98.2
Minn. ....	1,320	1,270	1,265	1,278	1,278	1,265	1,255	99
Iowa. ....	925	870	850	846	828	792	765	97
Mo. ....	708	677	659	655	642	610	579	95
N. Dak. ....	312	290	277	271	265	256	247	96
S. Dak. ....	276	259	249	244	238	230	224	97
Nebr. ....	366	340	327	318	303	286	272	95
Kans. ....	375	350	337	330	317	304	290	95
W. N. Cent. ....	4,282	4,056	3,964	3,942	3,871	3,743	3,632	97.0
Del. ....	30	28	27	26	25	24	23	96
Md. ....	222	218	217	219	215	212	208	98
Va. ....	348	337	337	333	322	309	297	96
W. Va. ....	149	138	131	126	119	112	107	96
N. C. ....	293	279	275	266	256	250	245	98
S. C. ....	128	115	109	107	104	100	93	93
Ga. ....	249	231	216	210	202	193	183	95
Fla. ....	189	192	194	189	179	176	176	100
S. Atl. ....	1,608	1,538	1,506	1,476	1,422	1,376	1,332	96.8
Ky. ....	533	511	504	500	494	480	460	96
Tenn. ....	532	500	486	488	494	477	453	95
Ala. ....	278	257	244	237	230	217	205	94
Miss. ....	428	388	367	352	330	305	285	93
Ark. ....	260	233	216	214	207	192	175	91
La. ....	260	240	234	231	226	219	210	96
Okla. ....	303	275	257	248	230	215	200	93
Tex. ....	662	614	577	553	543	520	490	94
S. Cent. ....	3,256	3,018	2,885	2,823	2,754	2,625	2,478	94.4
Mont. ....	89	84	79	76	73	70	67	96
Idaho. ....	204	204	202	200	199	192	190	99
Wyo. ....	33.0	32.0	31.0	29.0	27.5	26.0	25.0	96
Colo. ....	136	128	125	119	116	112	105	94
N. Mex. ....	43	43	42	40	39	40	41	102
Ariz. ....	49	50	50	50	50	51	52	102
Utah. ....	96	96	95	94	93	90	87	97
Nev. ....	14	15	16	15	15	15	14	93
Wash. ....	239	234	233	237	233	224	216	96
Oreg. ....	168	164	162	158	154	145	139	96
Calif. ....	833	830	822	811	804	796	784	98
West. ....	1,904	1,880	1,857	1,829	1,804	1,761	1,720	97.7
Alaska. ....			2.5	2.8	2.9	2.6	2.5	96
Hawaii. ....			13.9	13.7	13.9	14.0	13.5	96
U. S. ....	18,737	17,909	17,562	17,374	17,078	16,558	16,072	97.1

<sup>1/</sup> Includes Alaska and Hawaii beginning with 1960.

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In the North Central States, July rainfall was very spotty and high temperatures dried pastures in areas missed by the showers. Reported pasture condition declined during July in all of the North Central States except Indiana and North Dakota, and was below the 5-year average for August 1 in all except North Dakota. In Wisconsin, pastures were revived by locally heavy rains in eastern and southern areas but severe drought developed during July in the northwest part of the State. Reported condition for the State as a whole dropped 24 points during July and was 27 points below the average for August 1. Minnesota pastures also deteriorated rapidly during July -- reported August 1 condition was the lowest since 1936. Pastures in Nebraska, Kansas, and southern Missouri suffered severely from the combination of high temperatures and light, spotty rainfall during July. Reported condition dropped 15 points or more during July in each of these States. August 1 condition in Kansas was the lowest for the date since 1956.

In the South Central Region, severe drought developed during July in a large area including major parts of Texas and Oklahoma, also northwestern Louisiana. July rainfall was less than one-half of normal in most of this area -- the last general rains were in June. Many daily maximum temperatures above 100 degrees during July seared pastures and cured earlier growth of range grass. Locally heavy rains late in July brought relief to some areas of Oklahoma and Texas, but most of the area continued critically dry. July rainfall was also light in Kentucky and Tennessee, where August 1 pasture condition was reported 15 - 16 points below a year earlier. In Alabama and Mississippi, ample rainfall and below-normal temperatures during July produced unusually good summer pasture feed.

In the West, August 1 pasture condition was reported above the 5-year average for the date in all States except Colorado, New Mexico, and California. July rainfall was insignificant in California and below normal in most of the Mountain States, but irrigated pastures and higher elevation ranges continued to provide good feed. General rains in Arizona late in July improved prospects for fall grazing. In the Northwest, pasture feed continued plentiful during July west of the Cascades, but dryland pastures at lower elevations in eastern Washington and Oregon made little growth.