

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU  
IN COOPERATION WITH MARYLAND STATE WEATHER SERVICE

# CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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VOL. LI BALTIMORE, MD., JULY 1947 No. 7

## GENERAL SUMMARY

This was the fourth coolest July of record and the coolest since 1924 for the entire section, although the July of 1946 was 0.4 degree cooler in Delaware. Crisfield, Maryland, was the only station with above normal temperature. The lower Eastern Shore, including extreme southern Delaware, and the area near the head of the Chesapeake Bay were within a degree of normal. The greatest temperature deficiencies were in Charles, Talbot, Washington, Allegany and Frederick Counties.

There were no unusually warm periods during the month, as indicated by highest temperatures for the various stations being mostly in the lower 90's. Warm periods occurred on the 1st, 14th and 30th. A pronounced cool period prevailed from the 20th to the 25th. Light frost was reported from Oakland, Maryland, on the morning of the 24th. A less significant cool period was centered near the 3d.

Precipitation averaged close enough to be called normal although amounts of the various stations ranged from 1.33 inches at Lewes, Delaware, to 9.10 inches at Picardy, Maryland. Delaware averaged about an inch below normal in rainfall due to large deficiencies near the Delaware River. The largest amounts for the month fell on many sections of Garrett, Allegany, Washington, Frederick, Montgomery, and Baltimore Counties. Showers were reported from some portion of the section on all except four days. However, many were very light and were worthless from the standpoint of improving soil moisture conditions. Rainfall was well distributed through the month but poorly over the section, as indicated above.

Thunderstorms occurred on the 1st, 2d, 4th-7th, 9th, 11th-19th, 21st, 22d, 28th, 29th, and 31st. Heavy fog was reported on the 1st, 2d, 7th, 8th, 18th, 21st, 25th, 26th, and 30th.

As the month came to an end, crops were making good growth, except where soil moisture was deficient locally in eastern, southern, and central counties, and farm work was proceeding rapidly. Most small grains were cut and were being threshed as circumstances permitted. Corn was thriving as it recovered from a slow start. Truck crops and gardens were mostly in a good to very good condition although deteriorating locally due to the damage by the dry weather, Japanese beetles, and late tomato blight. Sweet corn and tomatoes were maturing east of the Blue Ridge. Irish potatoes were being dug. Early varieties of tree fruits were being harvested, while those which are to be picked at later dates were developing and some were coloring. Tobacco was improving and some plants were blooming, but the crop was only in a fair condition. Pastures and hay crops were good to excellent, although locally short in dry areas and poor in quality in a few other areas where there was a delay in harvesting. Considerable damage was being done by Japanese beetles.

## TEMPERATURE

The monthly mean temperature for the section was 74.2 degrees, 1.9 degrees below normal. The highest monthly mean temperature was 78.6 degrees at Crisfield, Maryland, and the lowest was 65.2 degrees at Sines, Maryland. The highest temperature, 97 degrees, occurred at Coleman, Maryland, on the 30th; the lowest, 37 degrees, at Oakland, Maryland, on the 24th. The greatest local monthly range was 52 degrees at Sines, where a maximum of 90 degrees was reported on the 16th, and a minimum of 38 degrees on the 24th. The least monthly range was 27 degrees at Oxford, Maryland. Oxford had extreme maximum and minimum temperatures of 87 and 60 degrees on the 30th and 24th, respectively.

## PRECIPITATION

The monthly average for the section was 4.29 inches which was 0.08 inch below normal. The greatest amount of precipitation for the month

was 9.10 inches at Picardy, Maryland. Lewes, Delaware, reported the least amount for the month with 1.33 inches. The greatest 24-hour rainfall was 3.65 inches and was recorded at Picardy on the 6-7th.

EVAPORATION STATION: Beltsville, Md. (Elevation, 120 feet)  
U.S. Bureau Dairying Industry, Joseph B. Shepherd, in charge  
(Evaporation Tank: 10 inches deep, 48 inches in diameter)

Precipitation, 3.55; evaporation, 6.402; average daily wind movement, 37.1.

## PRESSURE, HUMIDITY, SUNSHINE, WIND, DEGREE DAYS

Stations	Atmospheric pressure reduced to sea level				Wind				Mean relative humidity			Heating degree days (base 65°)	
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	1:30 p. m.	7:30 p. m.		Percentage of sunshine
Aberdeen, Md.	30.41	25	29.75	18	9.3	33	sw.	12	86	60	78	61	31
Annapolis, Md.	30.40	25	29.69	18†	9.3	33	sw.	17	82	70	78	61	35
Baltimore, Md.	30.39	25	29.68	19	9.3	33	sw.	17	77	57	67	61	17
Elkins, W. Va.	30.46	25	29.74	19	4.9	29	nw.	31	95	57	72	44	0
Harrisburg, Pa.	30.41	25	29.69	19	6.7	32	sw.	6	82	55	70	62	30
Norfolk, Va.	30.41	25	29.77	19	8.5	32	sw.	3	87	57	72	59	61
Philadelphia, Pa.	30.38	25	29.69	19	7.4	19	sw.	27	86	56	69	56	80
Pittsburgh, Pa.	30.40	25	29.70	19	8.4	33	nw.	1	88	59	68	49	5
Washington, D. C.	30.41	25	29.72	19	6.3	33	w.	12	78	56	67	72	68

## COMPARATIVE DATA FOR JULY

Year	FOR MARYLAND						FOR DELAWARE					
	Temperature			Precipitation			Temperature			Precipitation		
	Mean	Highest	Lowest	Average	Average snowfall	No. of days with .01 in. or more	Mean	Highest	Lowest	Average	Average snowfall	No. of days with .01 in. or more
1895	71.0	102	32	3.40	0.0	8	72.5	100	52	3.04	0.0	8
1896	75.7	99	40	5.39	0.0	11	77.2	99	53	4.71	0.0	11
1897	75.7	102	41	6.82	0.0	12	75.9	94	59	8.46	0.0	17
1898	77.4	109	32	3.53	0.0	9	77.5	99	51	4.00	0.0	8
1899	75.6	100	37	3.45	0.0	10	76.9	98	52	6.11	0.0	10
1900	77.2	106	35	3.25	0.0	8	78.7	100	54	2.69	0.0	7
1901	78.7	106	40	5.41	0.0	11	80.2	104	59	5.62	0.0	9
1902	75.7	104	43	3.76	0.0	10	76.4	104	52	3.22	0.0	9
1903	75.1	100	41	5.63	0.0	11	75.3	100	50	4.20	0.0	8
1904	73.4	102	35	5.19	0.0	12	74.2	98	51	5.97	0.0	13
1905	75.2	101	42	7.63	0.0	14	75.9	101	56	5.25	0.0	12
1906	73.9	96	42	5.08	0.0	12	74.9	95	55	6.95	0.0	13
1907	74.6	99	39	3.98	0.0	9	75.9	96	58	3.66	0.0	7
1908	76.5	102	38	4.80	0.0	11	78.2	100	52	5.46	0.0	10
1909	73.7	98	32	1.57	0.0	5	73.9	98	49	2.12	0.0	6
1910	75.9	98	42	2.43	0.0	8	77.0	95	51	3.53	0.0	9
1911	75.9	106	35	2.67	0.0	10	78.0	102	49	5.27	0.0	7
1912	74.2	99	43	5.40	0.0	11	75.4	98	51	4.44	0.0	9
1913	75.6	102	38	2.86	0.0	9	77.2	98	50	2.22	0.0	7
1914	74.3	101	35	2.74	0.0	10	75.3	99	53	5.43	0.0	10
1915	74.2	103	36	3.31	0.0	12	76.4	100	55	3.11	0.0	10
1916	75.9	100	42	5.46	0.0	10	76.4	93	53	5.91	0.0	9
1917	74.8	102	45	6.41	0.0	14	75.8	100	56	6.07	0.0	13
1918	72.4	99	38	3.16	0.0	9	74.0	97	46	2.34	0.0	6
1919	75.5	105	41	7.38	0.0	12	75.7	105	47	10.90	0.0	12
1920	72.8	98	37	4.65	0.0	9	74.3	96	48	4.89	0.0	9
1921	77.6	101	45	4.32	0.0	10	78.4	98	58	3.50	0.0	10
1922	74.7	99	43	5.83	0.0	12	75.3	96	56	6.39	0.0	10
1923	73.9	101	39	4.48	0.0	11	73.6	97	49	5.58	0.0	10
1924	72.9	100	42	2.36	0.0	7	73.7	94	52	3.31	0.0	6
1925	74.6	100	36	5.04	0.0	10	76.2	98	49	5.24	0.0	11
1926	74.8	107	38	5.21	0.0	12	75.9	102	51	10.47	0.0	14
1927	74.0	100	39	3.64	0.0	10	75.0	96	48	5.46	0.0	9
1928	75.5	99	40	4.22	0.0	10	76.7	98	51	4.88	0.0	11
1929	74.2	101	34	1.76	0.0	7	75.6	102	46	1.28	0.0	5
1930	76.9	108	38	1.41	0.0	6	78.3	110	50	3.00	0.0	8
1931	77.5	103	44	4.70	0.0	12	78.9	100	55	3.12	0.0	11
1932	74.6	99	41	3.10	0.0	9	76.2	91	53	2.44	0.0	9
1933	74.0	102	37	5.34	0.0	8	75.0	99	50	5.50	0.0	7
1934	78.4	107	42	2.97	0.0	8	78.7	101	52	7.19	0.0	10
1935	76.9	101	42	4.23	0.0	10	77.1	97	55	4.33	0.0	9
1936	75.8	109	38	4.20	0.0	10	76.1	105	53	4.01	0.0	11
1937	74.8	100	39	3.95	0.0	10	76.0	97	50	2.64	0.0	9
1938	75.8	99	42	7.00	0.0	14	76.7	96	50	9.69	0.0	16
1939	73.8	97	39	3.59	0.0	11	75.0	94	50	2.22	0.0	8
1940	74.9	103	37	3.45	0.0	9	75.5	102	46	2.37	0.0	8
1941	75.3	104	42	5.18	0.0	12	75.7	100	56	5.86	0.0	14
1942	75.9	102	44	4.76	0.0	11	76.8	100	53	5.73	0.0	10
1943	75.4	98	35	2.42	0.0	10	76.0	95	47	2.88	0.0	10
1944	75.9	100	39	2.57	0.0	7	76.9	99	50	1.81	0.0	6
1945	74.1	101	36	9.96	0.0	16	74.9	99	48	9.70	0.0	16
1946	74.0	99	36	3.71	0.0	9	73.8	96	49	6.11	0.0	9
1947	73.3	97	37	4.40	0.0	13	74.2	95	48	3.66	0.0	12
Period ...	75.1	109	32	4.32	0.0	10	76.1	110	46	4.75	0.0	10

Climatological Data for July 1947

Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date), Precipitation (Total, Departure from normal, Greatest in 24 hours, Date), Number of days (Total snowfall, With precip., Clear, Partly cloudy, Cloudy), Prevailing direction of wind, Observers.

All departures from normal are computed from the averages of the entire period for stations having 10 or more years of record... Thermometers are read in morning; maximum temperature then read is charged to preceding day...



Daily Temperatures for July 1947-Continued

Table with columns for Stations (Maryland), days 1-31, and Mean. Rows list various stations like Aberdeen, Annapolis, Baltimore, etc., with their respective temperature data for each day.

See page 26 for explanation of reference marks.