

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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### GENERAL SUMMARY

This month was dry and seasonably warm, with a mean temperature 1.1° cooler than in the preceding month of June.

Temperatures were warm or very warm for the season, except moderately cool during the 9th and 23d; cool during the 4th and 8th, and very cool during the 1st-3d and 7th. The warmest periods were 12th-22d and 25-29th. The coolest day was the 1st; frost formed in the Allegheny Mountain region and damaged tender vegetation in the highlands.

Rainfall was very deficient, except above normal in Garrett County. The area of least rainfall, 1 inch to 2 inches, embraced central and eastern Allegany County, Washington County, the Piedmont Plateau, southern Maryland, and the southwest and west-central portions of the Eastern Shore.

The average monthly rainfall of 2.48 inches was three-fifths of normal, 0.27 inch less than in the preceding month of June, and the least in July since 1930.

Sunshine was plentiful, except deficient during the first decade. Monthly sunshine was normal.

Vegetation during the third decade was showing adverse effects of prolonged dry and hot weather. Crop plants declined from fair to good to mostly fair and pastures declined from poor to fair to mostly poor, except in the Allegheny Mountain region, an area favored by beneficial showers, where crops and pastures were mostly good.

Picking peas ended during the first decade in Washington and Allegany Counties and during the last week in Garrett County; yields were fair to good. During the first decade cutting wheat and rye ended and digging early potatoes and picking early tomatoes and early apples began, except in the Allegheny Mountain region. Wheat and rye were cut during the second and third weeks in the Allegheny Mountain region. Cutting oats began during the second week and ended during the fourth week and field corn plants began earing during the third week, except began during the fourth week in the Allegheny Mountain region. Tobacco plants began blossoming during the second week. Cutting sweet corn began during the second week in the southern and central counties and during the fourth week in the northern counties, except in Garrett County. Picking early pears began during the third week and early peaches were ripening during the fourth week, except in the Allegheny Mountain region, where early tomatoes were ripening during the fourth week. Sweet potato plants vined heavily. Planting late potatoes in the central and eastern divisions, threshing grains, harvesting truck crops, and haying were in progress. Yields of early potatoes were poor; of grains, poor to good. Early tomatoes were good to fine in quality and good to heavy yields generally. — J. B., jr.

### TEMPERATURE

The monthly mean for the section, 75.5°, is 0.2° above normal. The highest monthly mean was 80.5° at Crisfield; the lowest, 66.8°, at Sines. The highest temperature, 98°, occurred at Crisfield on the 18th and at Ferry Landing on the 21st; the lowest, 35°, at Grantsville and Sines on the 1st. The greatest local monthly range was 55° at Cumberland and Keedysville; the least, 34°, at Annapolis.

### PRECIPITATION

The monthly average for the section, 2.48 inches, is 1.82 inches below normal. The greatest monthly rainfall was 5.29 inches at Oakland; the least, 0.45 inch at Blackwater. The greatest 24-hour rainfall was 2.68 inches at Great Falls on the 10-11th.

### MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs, light.—2, 4 to 18, 21, 22, 24 to 27, 29. Fogs, dense.—7 to 12, 16 to 18, 26, 27.  
Frost, damaging tender vegetation.—Allegheny Mountain highlands, 1. Halos, lunar.—

16, 19, 23. Halo, solar.—17. Hal, light.—Great Falls, 10 miles north of Towson, and Westminster, 20; Baltimore, 25. Thunderstorms, moderately strong.—4, 17, 18, 20, 22, 25 to 28. Thunderstorms.—4, 5, 7, 9 to 15, 17, 18, 20, 22, 25 to 30.

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)

Month	Temperature					Precipitation (total)	Evaporation (inches)
	Mean	High	Date	Low	Date		
July 1943	75.5	94	16 17 21	46	1	1.25	7.532

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

Stations	Atmospheric pressure reduced to sea level			Wind			Mean relative humidity			Percentage of sunshine	Cooling degree days (base 70°)	
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.			1:30 p. m.
Aberdeen, Md.	30.41	2	29.72	29	7.6	...	...	...	80	59	70	66
Annapolis, Md.	30.36	2	29.70	29	7.8	...	...	...	88	78	...	111
Baltimore, Md.	30.39	2	29.71	30	8.6	26	s.	20	76	53	65	129
Elkins, W. Va.	30.34	2	29.78	29	4.6	28	nw.	17	93	64	81	49
Harrisburg, Pa.	30.38	2	29.71	29	6.6	29	s.	4	73	51	62	61
Norfolk, Va.	30.36	2	29.74	22	7.8	32	w.	29	87	67	83	88
Philadelphia, Pa.	30.37	2	29.66	30	6.9	25	nw.	22	79	54	64	52
Pittsburgh, Pa.	30.32	2	29.72	29	8.3	25	nw.	27	83	54	65	67
Washington, D. C.	30.38	2	29.73	29	5.8	20	w.	20	79	55	64	63

### COMPARATIVE DATA FOR JULY

Year	FOR MARYLAND							FOR DELAWARE						
	Temperature			Precipitation			No. of days with 0.1 in. or more	Temperature			Precipitation			No. of days with 0.1 in. or more
	Mean	Highest	Lowest	Average	Average snowfall	Mean		Highest	Lowest	Average	Average snowfall			
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	75.6	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	4.09	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	9.97	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	53	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	73.1	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	76.9	106	35	2.67	0.0	6	78.0	102	49	2.87	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	4.31	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	48	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	5.50	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	9		
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	53	4.38	0.0	9		
1936	75.8	109	38	4.20	0.0	10	76.1	105	55	4.01	0.0	11		
1937	74.8	100	39	3.96	0.0	10	76.0	97	53	2.64	0.0	8		
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	8.86	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		
Period	75.2	109	32	4.26	0.0	10	76.1	110	46	4.70	0.0	10		

Climatological Data for July 1943

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, Total snowfall), Number of days (With precip., Clear, Partly cloudy, Cloudy), Prevailing direction of wind, OBSERVERS.

The departures from normal temperatures are computed from the averages of the entire period for stations having 10 or more years of record. Departures of precipitation with 15 years or more of record are computed from a normal or "standard mean", adjusted to a uniform 35-year period; for stations of 10 to 14 years the means for the period of record are used. Data in italics determined from surrounding stations. †Precipitation is less than 0.01 inch rain or melted snow. ††Post addresses of these stations are as follows: Of Bell, Glendale; of Blackwater, Cambridge, Wornton; of Edgemont, Smithsburg; of Fallston, Bagley; of Ferry Landing, Owings; of Great Falls, Bethesda; of Mt. Savage Summit, Frostburg; of Pearsdy, Paw Paw, Va.; of Pleasant Hill, Owings Mills; of Pretyboy Dam, Parkton; of Sines, Oakland; of Tonoloway, Hancock. \*Custom House, Gay and Water Sts. \*\*Weather Bureau Building, 24th and M Sts. †Also on other dates. §On mountain top, 2 1/2 miles northwest of Frostburg. ¶Municipal Building. ¶¶Porter Reservoir. ¶¶¶Water Pumping Station. ¶¶¶¶University Farm. §1 mile west. †††† Figures and letters following station indicate distance and direction of the observation point from the city. Elevations are of ground above mean sea level. §†Thermometers are read in morning; maximum temperature then read is charged to preceding day, on which it almost always occurs. Temperatures at Aberdeen, Annapolis, Baltimore, Sines, and Washington are from midnight to midnight; at Dundalk, Mt. Savage Summit, Ocean City, and Snow Hill the thermometers are read at 1:30 a. m., the extremes are charged to the preceding day; other stations, except Blackwater, Cheltenham, Chestertown, Conowingo Dam, Cumberland, and Pocomoke City, are for 24-hour period ending late in afternoon, near sunset. §Thermometers are read at 9 p. m.



Daily Temperatures for July 1943-Continued

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

See page 26 for explanation of reference marks.

(WBO, Richmond, Va., 9-3-43-1,200)