

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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GENERAL SUMMARY

This was the coolest July since 1924. Monthly rainfall was below normal. The first and second decades were dry. The third decade was humid with frequent showers. There were no damaging thunder-gusts. Monthly sunshine was 5% below normal.

The weather was moderately warm during the 1st-14th, cool during the 15th-23d, and warm during the 24th-31st.

Heavy showers on the 29th flooded the streets of Cumberland and Ellerslie; at Ellerslie the damage was \$6,000.

Corn was good to excellent and other crops and pastures were fair to good, except poor to fair over the southern and central Eastern Shore; all improved during the third decade.

During the first week harvesting early peas in Garrett County ended; wheat and rye were threshed, harvesting oats ended, and threshing oats began in the southern and central counties; in the northern counties harvesting wheat and rye ended, except during the second week in Garrett County, and threshing wheat and rye and harvesting oats began, except in western Maryland; and digging early potatoes became general in eastern and central divisions. During the second week threshing wheat and rye and digging early potatoes began in western Maryland, except in Garrett County. During the third week oats were harvested in Allegany and Washington Counties; threshing oats ended in the southern and central counties and threshing wheat and rye and harvesting oats ended and threshing oats began in the northern counties, except in western Maryland; and harvesting cantaloupes began. During the fourth week harvesting oats began in Garrett County; threshing oats began in Allegany and Washington Counties and ended in the northern counties from Frederick to New Castle; early corn was in tassel and was earing and silking; early tobacco plants were blooming. Harvesting early tomatoes, early sugar corn, truck crops, and early tree fruits, and haying were in progress. Late potato plants were good and growing nicely in western Maryland. Late potatoes came up to good stands in the central and eastern divisions. Tobacco plants were cultivated. Sweet potato tubers were making during the second half of the month. —J. B., jr.

TEMPERATURE

The monthly mean for the section, 73.9°, is 1.4° below normal. The highest monthly mean was 77.4° at Crisfield; the lowest, 65.2°, at Mt. Savage Summit. The highest temperature, 97°, occurred at Cumberland on the 8th; the lowest, 39°, at Oakland and Sines on the 16th. The greatest local monthly range was 49° at Cumberland; the least, 28°, at Delaware Breakwater. The greatest daily range was 37° at Darlington, Hancock, and Snow Hill.

PRECIPITATION

The monthly average for the section, 3.40 inches, is 0.82 inch below normal. The greatest monthly amount was 9.84 inches at Princess Anne; the least, 1.27 inches, at Coleman. The greatest 24-hour rainfall was 3.64 inches at State Sanatorium on the 26-27th. The average number of days with 0.01 inch or more of rain, 11, is 1 above normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs: 1, 2, 4 to 7, 10, 13, 14, 17 to 30. Hail, light: 10, 14, 30. Halos, lunar: 2, 3, 4. Halos, solar: 3, 17. Lightning destroyed a barn and contents near Bay Shore on the 24th; destroyed a barn and contents (loss \$5,000) and killed a 6-year old girl at Rising Sun on the 24th; destroyed a barn and contents at Comus and a barn and contents (including 5 mules) at Germantown on the 30th, loss \$7,500.

Rainbows, solar: 5, 6, 24. Rainbow, lunar: Baltimore, 30. Thunderstorms: 4, 5, 8, 10, 13, 14, 18, 24 to 30.

PRESSURE, HUMIDITY, SUNSHINE, WIND, DEGREE DAYS For June, 1939.

Stations	Atmospheric pressure reduced to sea level			Wind			Mean relative humidity			Percentage of sunshine	Cooling degree days (base 75°)	
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.			1:30 p. m.
Aberdeen, Md.*	30.27	3	29.64	11	9.4	30	ne.	17	74	66	71	34
Annapolis, Md.	30.23	27	29.66	30	8.0	13	76	66	73	69
Baltimore, Md.	30.24	3	29.68	11	10.2	34	se.	13	69	54	59	61
Elkins, W. Va.	30.24	5	29.76	30	4.9	21	sw.	3	90	63	73	54
Harrisburg, Pa.*	30.24	3	29.67	11	7.6	34	sw.	11	71	52	61	62
Norfolk, Va.	30.25	27	29.72	30	9.9	33	w.	8	78	59	69	65
Philadelphia, Pa.	30.26	27	29.68	30	11.8	33	n.	6	72	56	61	67
Pittsburgh, Pa.*	30.21	21	29.70	30	9.1	34	n.w.	8	81	63	68	51
Washington, D. C.	30.24	3	29.68	11	6.3	34	sw.	7	75	59	64	55

* Observations taken at airport station.

† July, 1939, data appeared in the June, 1939, issue.

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	75.6	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	5.97	0.0	13
1905	75.2	101	42	7.63	0.0	14	75.9	101	66	5.25	0.0	12
1906	73.9	96	42	5.08	0.0	12	74.9	95	55	6.85	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	62	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	60	2.22	0.0	7
1914	74.3	101	35	2.74	0.0	10	75.3	99	58	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	4.39	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	7
1933	74.0	102	37	5.34	0.0	8	75.0	99	50	5.50	0.0	10
1934	78.4	107	42	2.97	0.0	8	78.7	101	52	7.19	0.0	9
1935	76.3	101	42	4.23	0.0	10	77.1	97	53	4.33	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
Period	75.1	109	32	4.16	0.0	10	76.4	110	46	4.62	0.0	10

Climatological Data for July 1939

Table with columns: STATIONS, COUNTIES, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall, With precip., Clear, Partly cloudy, Cloudy), Number of days, 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.

Post addresses of these stations are as follows: Of Bell, Glendale; of Coleman, Worton; of Fallston, Bagley; of Ferry Landing, Owings; of Great Falls, Bethesda; of Mt. Savage Summit, Frostburg; of Odessa, Middletown; of Picardy, Paw Paw, W. Va.; of Pleasant Hill, Owings Mills; of Prettyboy Dam, Parkton; of Sines, Oakland. *Custom House, Gay and Water Sts. **Weather Bureau Building, 24th and M Sts. †Also on other dates. ‡2 miles northwest of Frostburg. §Municipal Building. ¶Porter Reservoir.

Daily Temperatures for July 1939-Continued

Table with columns for Stations, days 1-31, and Mean. Rows list various Maryland locations such as Aberdeen, Annapolis, Baltimore, etc., with their respective temperature readings for each day.

☉ Instruments are read in morning; maximum temperature then read is charged to preceding day, on which it almost always occurs. Temperatures at Aberdeen, Annapolis, Baltimore, Conowingo Dam, Dundalk, Sines, and Washington are from midnight to midnight; other stations, except Cheltenham and Cumberland, are on 24-hour period ending late in afternoon, near sunset, except 9:30 p.m. at Princess Anne. (WBO, Richmond, Va., 10 9-39-1,050)