

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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GENERAL SUMMARY

This August was warm. Monthly rainfall was deficient to westward of Chesapeake Bay, but was well above normal on the Eastern Shore. Sunshiny weather prevailed in the western portion of the section, while cloudiness with rain prevailed in the eastern portion during the 26-30th. Monthly sunshine was 10% below normal on the Eastern Shore; 5% below normal in southern Maryland; 5% above normal in north-central Maryland; and 10% above normal in western Maryland.

A storm moving northeastward over the section during the early morning of the 19th, caused strong to gale force easterly winds and heavy rain in the eastern and central divisions, which flattened much corn and damaged some tobacco and tomato plants. The gale unroofed six adjoining homes and damaged a greenhouse at 5:30 a. m., in Baltimore; damage about \$5,000.

Vegetation was affected unfavorably by the dry very warm weather prior to the 19th. In the eastern and central divisions corn was firing, other crops were wilting, and grasses and pastures were burning up during the second decade, but after the general heavy rain of the 19th vegetation revived and crops, grasses, and pastures improved to fair to good during the fourth week. In western Maryland crops, grasses, and pastures were fair to good throughout the month.

During the second week threshing wheat and rye and harvesting oats ended and threshing oats began in Garrett County and threshing wheat, rye, and oats ended in Washington and Allegany Counties. During the third week digging early potatoes ended in the eastern and central divisions; yields were mostly poor. During the fourth week digging early potatoes continued, late potatoes were making and developing, and early corn was maturing in western Maryland; cutting early corn began and sweet potatoes were maturing or matured in the central and eastern divisions; and late corn was growing nicely.

Harvesting tomatoes, sugar corn, tobacco, truck crops, gardens, cantaloupes, watermelons, and tree fruits was in progress; also haying—J. B., jr.

TEMPERATURE

The monthly mean for the section, 76.2°, is 2.9° above normal. The highest monthly mean was 80.0° at Baltimore; the lowest, 67.0°, at Oakland. The highest temperature, 99°, occurred at College Park on the 9th; the lowest, 44°, at Oakland and Sines on the 5th and 23d. The greatest local monthly range was 45° at Hancock; the least, 30°, at Baltimore. The greatest daily range was 40° at Sines on the 23d.

PRECIPITATION

The monthly average for the section, 4.93 inches, is 0.34 inch above normal. The greatest monthly amount was 16.08 inches at Dover; the least, 0.64 inch, at Chewsville. The greatest 24-hour rainfall was 5.90 inches at Newark on the 19th. The average number of days with 0.01 inch or more of precipitation, 8, is 2 below normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs.—3 to 9, 11 to 16, 18, 19, 21 to 26, 29, 30. *Hail, moderate.*—Conowingo Dam, 3 p. m., 1st, no damage; Woodstock, 6:20 p. m., 15th, loss of wheat and corn \$150.00. *Lightning* destroyed tenant house near Aberdeen night of 3d; destroyed barrack and contents west of Ellicott City, 6:30 p. m., 15th, loss \$3,000; destroyed greenhouse track and damaged roof of nearby residence near Fullerton, 5 p. m., 24th. *Thunder* night of 3d broke off a 12-inch tree limb which struck the nearby home (damage \$10.00) and blew down 200 poled plants with butter beans in the pods near Laurel. *Thunderstorms.*—1, 3, 7, 8, 9, 12, 14 to 20, 22, 24, 25, 26, 29. *Tornado.*—Extreme southeastern St. Marys County, 2 a. m., 19th; s. to n.; path 300 to 450 feet wide and 5 miles long, from Scotland to Dameron; at Scotland 3 persons were injured and property damage was \$4,000. to \$5,000.; on St. Jerome's Creek a one-story house was wrecked and the elderly woman occupant was killed and her brother was injured; at Dameron a 2-story frame house and a frame garage were demolished, loss \$5,000.

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PRESSURE, HUMIDITY, SUNSHINE, WIND, DEGREE DAYS

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	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Aberdeen, Md.	30.26	12	29.73	9	8.7	40	sw.	19	80	103
Annapolis, Md.	30.24	12	29.70	19	7.5	43	ne.	19	74	..	75	66
Baltimore, Md.	30.27	12	29.71	19	9.5	43	ne.	19	78	50	71	70
Elkings, W. Va.	30.25	11	29.78	18	4.3	24	w.	9	95	55	61	60
Harrisburg, Pa.	30.24	12	29.75	4	6.8	34	e.	19	79	47	62	68
Norfolk, Va.	30.26	12	29.71	29	8.3	33	nw.	29	74	60	77	55
Philadelphia, Pa.	30.28	12	29.75	4	10.6	39	s.	3	80	60	68	55
Pittsburgh, Pa.	30.22	11	29.78	4	8.2	25	w.	7	82	47	58	78
Washington, D. C.	30.24	12	29.69	19	5.8	16	n.	29	78	51	65	56

COMPARATIVE DATA FOR AUGUST

Year	FOR MARYLAND						FOR DELAWARE					
	Temperature			Precipitation			Temperature			Precipitation		
	Mean	Highest	Lowest	Average	Average snowfall	No. of days with 0.01 in. or more	Mean	Highest	Lowest	Average	Average snowfall	No. of days with 0.1 in. or more
1895.....	75.2	102	31	1.90	0.0	7	77.1	100	49	2.73	0.0	7
1896.....	74.2	100	34	1.77	0.0	6	75.8	103	50	1.57	0.0	7
1897.....	71.6	95	39	3.53	0.0	8	73.5	93	54	3.33	0.0	7
1898.....	75.3	98	46	6.42	0.0	9	76.7	95	53	5.07	0.0	7
1899.....	74.1	102	41	4.09	0.0	9	74.4	96	52	4.91	0.0	8
1900.....	78.8	103	41	3.04	0.0	9	78.7	104	52	2.79	0.0	9
1901.....	74.9	98	42	5.72	0.0	10	76.7	95	57	7.13	0.0	9
1902.....	71.6	100	33	2.11	0.0	7	73.1	96	48	1.62	0.0	7
1903.....	71.0	100	37	5.25	0.0	13	72.4	99	49	4.58	0.0	9
1904.....	71.8	97	31	2.96	0.0	8	72.8	94	48	2.42	0.0	6
1905.....	72.9	104	38	5.19	0.0	9	73.3	93	51	6.49	0.0	10
1906.....	75.6	96	47	8.32	0.0	16	76.9	97	59	9.25	0.0	14
1907.....	71.3	95	39	4.40	0.0	11	72.8	95	51	3.29	0.0	9
1908.....	71.7	101	34	4.98	0.0	9	72.1	97	48	5.06	0.0	11
1909.....	71.7	99	33	3.11	0.0	7	72.3	95	48	2.97	0.0	4
1910.....	72.3	95	34	2.79	0.0	9	72.9	92	51	3.32	0.0	11
1911.....	74.7	104	37	9.95	0.0	15	75.4	99	51	9.87	0.0	13
1912.....	71.5	99	36	2.93	0.0	9	73.8	97	49	1.87	0.0	7
1913.....	73.0	101	38	3.90	0.0	9	74.0	99	52	3.60	0.0	8
1914.....	74.4	102	38	4.84	0.0	9	76.5	100	55	3.94	0.0	8
1915.....	72.4	102	38	8.22	0.0	15	74.5	101	49	8.05	0.0	12
1916.....	74.1	101	38	2.42	0.0	7	74.9	99	49	1.14	0.0	5
1917.....	73.8	100	40	3.15	0.0	8	75.0	98	51	3.54	0.0	9
1918.....	76.0	109	40	3.19	0.0	9	76.7	107	48	1.55	0.0	5
1919.....	71.9	96	37	5.87	0.0	11	72.5	94	51	9.54	0.0	11
1920.....	73.4	95	42	6.86	0.0	18	74.5	91	52	8.13	0.0	18
1921.....	71.2	97	37	3.70	0.0	8	72.3	98	49	3.82	0.0	9
1922.....	71.6	98	31	3.19	0.0	10	72.9	91	51	4.79	0.0	11
1923.....	72.7	98	34	3.12	0.0	11	73.0	96	45	2.78	0.0	10
1924.....	73.3	103	35	4.00	0.0	8	74.2	100	49	4.57	0.0	7
1925.....	71.6	98	35	2.38	0.0	8	72.4	95	45	3.39	0.0	7
1926.....	74.8	104	42	6.54	0.0	14	76.1	101	55	5.66	0.0	11
1927.....	68.4	92	36	3.97	0.0	13	69.6	91	47	4.96	0.0	13
1928.....	75.5	99	41	9.09	0.0	12	77.0	100	55	10.00	0.0	12
1929.....	71.3	99	35	2.69	0.0	7	72.7	97	45	2.84	0.0	8
1930.....	73.7	108	30	1.06	0.0	5	74.4	102	46	1.59	0.0	4
1931.....	73.6	101	40	7.44	0.0	15	75.8	101	56	9.88	0.0	13
1932.....	74.6	104	38	2.55	0.0	7	75.7	100	50	2.12	0.0	6
1933.....	73.8	100	40	10.00	0.0	12	75.6	98	56	12.73	0.0	13
1934.....	72.0	97	32	4.94	0.0	10	72.9	94	44	5.40	0.0	10
1935.....	74.1	100	36	3.22	0.0	9	74.6	99	49	3.68	0.0	10
1936.....	75.8	101	39	4.11	0.0	10	76.4	100	50	6.08	0.0	8
1937.....	75.5	100	44	6.87	0.0	13	76.1	95	55	8.29	0.0	15
1938.....	76.2	100	38	2.61	0.0	6	76.8	98	49	3.40	0.0	7
1939.....	76.1	99	44	4.20	0.0	8	76.3	97	54	9.50	0.0	11
Period.....	73.1	109	30	4.56	0.0	10	74.6	107	44	4.78	0.0	9

Climatological Data for August 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), Number of days (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. T. Precipitation is less than 0.01-inch rain or melted snow.
††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.

MISCELLANEOUS PHENOMENA (Continued)

Waterspout, 20 feet in diameter, traveling northward, collapsed when it struck a tree on the north shore of Jenkins Creek, 1 mile south of Crisfield, at 8:30 a.m. of 4th; the nearby home was damaged slightly. Five waterspouts were observed that morning over the waters surrounding Crisfield.

Daily Precipitation for August 1939

Table with columns for Stations, Drainage basin, Day of month (1-31), and Total. Rows list various stations in Maryland and Delaware, such as Aberdeen, Annapolis, Baltimore, etc.

Except as otherwise indicated, observations are generally made late in afternoon, near sunset, and precipitation recorded is for the 24 hours ending at time of observation.
1 First-order Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.
2 Precipitation is for 24-hour period, midnight to midnight.
3 Precipitation is for 24-hour period, 9:30 p.m. to 9:30 p.m.
4 Precipitation is measured in the morning; amount then recorded is for the preceding 24 hours.
5 Precipitation is measured with recording gage.
6 Precipitation is included in the next measurement.
7 Trace, or precipitation is less than .01 inch.
8 Two miles northwest of Frostburg.
9 Municipal Building.
10 Porter Reservoir.

Daily Temperatures for August 1939

Table with columns for Stations, Day of month (1-31), and Mean. Rows list various stations in Maryland and Delaware, such as Bridgeville, Delaware Breakwater, Delaware City, etc.

Daily Temperatures for August 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 daily temperature readings.

§§ 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, Dondalk, 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., II-9-39-1,050)