

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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GENERAL SUMMARY

This was the coolest August since 1929. The first and second decades were moderately warm; the third decade was cold. Daily rains the last week produced the bulk of the monthly rainfall, which was above normal, except below normal over the extreme southern Eastern Shore and the central interior portion of the Section. Monthly sunshine, 15% below normal, was the least in August since 1920. No hail fell. There were no damaging wind storms.

The first half of the month crops, though fair to good, were showing the effects of prolonged dryness and were at a critical stage and grasses were fair in western Maryland and poor in the central and eastern divisions; thereafter, there was general improvement to good the last week. Harvesting oats ended the first decade in the northern counties, except began the first decade and ended the second decade in Garrett County. Threshing grains was finished, except oats in Garrett County. Yields of wheat and rye were poor to good; of oats, fair to good. Digging early potatoes ended in the southern and central counties. Picking tomatoes, apples, peaches, pears, cantaloupes, and watermelons, cutting sugar corn, harvesting truck crops, and cutting soy bean vines for hay were in progress. Cutting tobacco began the third week. Late potato tubers in western Maryland were developing and sizing. Late potato plants in the central and eastern divisions were good stands; the early ones were blooming the second half of the month. Sweet potato tubers were developing, sizing, and maturing; digging began the second week on the southern Eastern Shore. The early corn was maturing and the late corn was filling out nicely the third decade. The rains of the last week damaged tomatoes, peaches, cantaloupes, and watermelons, and tobacco in barns.—*J. B., jr.*

TEMPERATURE

The monthly mean for the section, 71.4°, is 2.1° below normal. The highest monthly mean was 75.5° at Crisfield; the lowest, 62.9°, at Mt. Savage Summit. The highest temperature, 97°, occurred at Cumberland on the 6th and at Western Port on the 5th; the lowest, 38°, at Sines on the 21st. The greatest local monthly range was 52° at Western Port; the least, 23°, at Delaware Breakwater. The greatest daily range was 38° at Western Port on the 5th.

PRECIPITATION

The monthly average for the section, 5.35 inches, is 0.76 inch above normal. The greatest monthly amount was 8.38 inches at Conowingo Dam; the least, 2.93 inches, at Unionville. The greatest 24-hour rainfall was 4.10 inches at Darlington from 6 p.m. 6th to 5 a.m. 7th. The average number of days with 0.01 inch or more of precipitation, 13, is 3 above normal.

DAMAGE BY FLOODS

Heavy rain on the 25th at Cumberland caused collapse of the Campobello Street concrete wall; loss \$8,000.

Heavy rain on the 31st in Frederick County caused swollen streams to overflow their banks. In Frederick, Carroll Creek flooded over its banks and retaining walls and reached an unprecedented crest of several feet above the bed of Patrick Street. The water damaged merchandise in warehouses and stores to between \$75,000 and \$100,000, reached to the

tops of autos on the municipal parking lot, and flooded many cellars. A bridge near Rosemont, a concrete bridge between Harmony Grove and Hansonville, and a trestle over a branch of Tuscarora Creek were washed out. The Tuscarora reservoir was wrecked. The roadway at the east end of Middletown was undermined. Washouts occurred at many points on the highways. A youth was drowned in the Monocacy River at Biggs Ford. Some cattle, 4 hogs, and much poultry were drowned in Catocchin Creek. Many fishing cabins were washed away and 10 colts were drowned in Broad Creek near Jefferson. The Monocacy River reached its peak on September 1. Heavy rain at night of the 31st in extreme northern Kent County, Delaware, caused flooding waters of Lake Como, near Smyrna, to wash out two bridges on the DuPont Highway and parts of the Pennsylvania Railroad roadbed; damage \$50,000. A telephone lineman was drowned.—*J. B., jr.*

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	Date	7:30 a. m.			1:30 p. m.
Aberdeen, Md.	30.37	11	29.66	19	8.8	24	nw.	6	84	80	73	37
Annapolis, Md.	30.36	11	29.64	19	9.1	26	19	84	84	77	41
Baltimore, Md.	30.38	11	29.66	19	10.0	26	nw.	19	84	84	75	43
Elkins, W. Va.	30.30	11	29.71	19	5.1	19	w.	6	86	86	76	33
Harrisburg, Pa.	30.40	11	29.66	19	7.2	26	sw.	6	86	86	72	34
Norfolk, Va.	30.30	11	29.65	19	9.4	28	nw.	1	86	86	85	45
Philadelphia, Pa.	30.39	11	29.66	19	11.4	26	s.	5	86	83	76	28
Pittsburgh, Pa.	30.33	11	29.69	18	9.0	27	nw.	18	82	82	66	23
Washington, D. C.	30.35	11	29.65	19	6.2	20	nw.	19	84	84	72	44

COMPARATIVE DATA FOR AUGUST

Year	FOR MARYLAND						FOR DELAWARE					
	Temperature			Precipitation			Temperature			Precipitation		
	Mean	Highest	Lowest	Average	Average snowfall with .01 in. or more	No. of days with .01 in. or more	Mean	Highest	Lowest	Average	Average snowfall with .01 in. or more	No. of days with .01 in. or more
1896	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	75.3	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	9
1899	74.1	102	41	4.09	0.0	9	74.4	96	52	4.91	0.0	9
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	96	48	1.62	0.0	9
1902	71.6	100	37	2.11	0.0	7	73.7	99	49	4.58	0.0	9
1903	71.0	100	33	5.25	0.0	13	72.4	94	48	2.42	0.0	6
1904	71.8	97	31	3.98	0.0	8	72.3	94	48	4.52	0.0	6
1905	72.8	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
1907	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	73.3	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	5.37	0.0	11	72.5	94	51	9.54	0.0	11
1920	73.4	95	42	6.86	0.0	16	74.5	91	52	8.13	0.0	14
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	3.33	0.0	11
1926	74.8	104	42	6.54	0.0	14	76.1	101	55	5.66	0.0	11
1927	68.4	92	36	3.37	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	103	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	13.73	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	3.66	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	76.8	97	54	9.50	0.0	11
1940	71.3	97	38	5.29	0.0	13	72.3	95	48	5.69	0.0	12
Period	73.4	109	30	4.51	0.0	10	74.5	107	44	4.98	0.0	9

Climatological Data for August 1940

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. 0.01 in. or more, Clear, Partly cloudy, Cloudy), Number of days, Prevailing direction of wind, OBSERVERS. Includes stations like Aberdeen, Annapolis, Baltimore, etc.

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...

ERRATA

June, 1940.—Page 23: In the footnote under Daily precipitation Table, Water Pumping Station should read University Farm and University Farm should read Water Pumping Station.

Daily Precipitation for August 1940

Table with columns for Stations, Drainage basin, Day of month (1-31), and Total. Rows list various Maryland and Delaware locations with their respective precipitation amounts for each day.

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.
† Precipitation is measured with recording gage.
* Precipitation is included in the next measurement.
T Trace, or precipitation is less than .01 inch.
§ Two miles northwest of Frostburg.
§§ Municipal Building.
§§§ Porter Reservoir.
§§§§ University Farm.
§§§§§ Water Pumping Station.

Daily Temperatures for August 1940

Table with columns for Stations, Day of month (1-31), and Mean. Rows list various Maryland and Delaware locations with their maximum and minimum temperatures for each day.

Daily Temperatures for August 1940-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 ranges and monthly averages.

☞ 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, Chestertown, Conowingo Dam, Sines, and Washington are from midnight to midnight; other stations, except Cheltenham and Cumberland, are for 24-hour period ending late in afternoon, near sunset, except 9:30 p.m. at Princess Anne.