

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 was the third consecutive August with mean temperature below normal and the wettest August since 1933. Monthly sunshine was 5 to 10 per cent below normal. The weather was cool, except warm during the 1st-3d, 10-11th, 14-17th, and 20th-23d. The 24-28th was the coolest period. The 8-17th was a wet period. Rains damaged some crops. Floods damaged some property. Tornadoes caused some damage on the 17th in Garrett County.

Areas of greatest monthly rainfall, 10 to 13 inches, were southern Worcester, northern Kent (Del.), extreme southeastern and northern Baltimore, northern Carroll, extreme eastern Frederick, extreme southern Howard, extreme northern Montgomery, and central and western Charles Counties.

Vegetation made vigorous growth. Grasses, pastures, and crops, except those damaged by too much rain, were mostly good to excellent. Threshing grains on the Eastern Shore and in southern Maryland ended during the first week, but was unfinished at the close of the month in north-central and western Maryland. Cutting oats ended in the Allegheny Mountain region and cutting tobacco began in southern Maryland during the third week. During the last week corn was maturing, late potatoes in western Maryland were maturing, and late potato plants in the central and eastern divisions were blooming. Harvesting truck crops, picking tomatoes, tree fruits, and cantaloupes, pulling sugar corn, digging early potatoes and sweet potatoes, and haying were in progress. Watermelons were harvested. The excessive rains interfered with field operations, caused early potatoes in the ground to rot and grains in shock in north-central and western Maryland to sprout, damaged peaches, tobacco, and hay, and caused a loss of 20 to 40 per cent of tomatoes in the fields.

Heavy rains of the 8-9th yielded 3 to 6 inches in southern and north-central Maryland. Flood waters from the Anacostia River were 4 feet deep in the business section of Bladensburg and forced 30 families from their homes along the Washington Boulevard. Seven families were forced from their homes at Edmonston, west of Hyattsville. The highway near Upper Marlboro and the highway 6 miles west of La Plata were covered by 2 to 3 feet of water. Homes and the airport fields at Dundalk were flooded. Parkton was inundated by flood waters 10 feet deep; homes and buildings were flooded.

Heavy rains of the 12-13th yielded 2 to 5 inches in north-central Maryland and 2 to 3 inches locally on the Eastern Shore. Parkton was inundated by flood waters; homes and buildings were flooded. Flood waters covered some highway bridges in Carroll and Frederick Counties and 15 acres of goldfish ponds at Three Springs Fisheries and filled the cement quarries at Union Bridge to a depth of 8 feet.

The interiors and furnishings of flooded homes and buildings were damaged by water. Damage to highways in northern Baltimore County was \$25,000. — J. B., jr.

TEMPERATURE

The monthly mean for the section, 72.70°, is 0.8° below normal. The highest monthly mean was 77.4° at Crisfield; the lowest, 63.8°, at Mt. Savage Summit. The highest temperature, 97°, occurred at Crisfield on the 1st and 3d; the lowest, 35°, at Sines on the 25th. The greatest local monthly range was 54° at Picardy; the least, 35°, at Solomons.

PRECIPITATION

The monthly average for the section, 7.34 inches, is 2.74 inches above normal. The greatest monthly amount was 12.81 inches at Maryland Line; the least, 3.83 inches at Millington. The greatest 24-hour rainfall was 4.94 inches at Fallston during the 8th-9th.

MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs, light.—1, 3, 6 to 22, 25 to 31. Fogs, dense.—8, 10, 12, 14, 15, 20, 28, 31.
Hail, light.—Coleman, 10. Hail, solar.—11, 18, 20, 21. Rainbows.—Chewsville, 23; Snow Hill, 13. Strong southerly winds and high tide.—Night 8-9. Thundergusts, strong.—10, 16, 17, 23.
Thunderstorms.—1, 2, 3, 8 to 17, 21, 22, 23, 29.
Tornadoes.—At 11 a. m., 17th, in Garrett County. One tornado occurred at Mc Henry, 10 miles north of Oakland; a cupboard filled with dishes was upset in a home and a path 100 feet wide was cut through a timber patch, loss \$500. Another tornado, path 100 to 300 feet wide, moved from 1 mile north of Deer Park eastward through Altamont to Swanton, a distance of 7 miles. A home was unroofed and its front porch was demolished at Deer Park; loss \$1,500. A silo was unroofed, a garage and the front porch of the home were demolished, the barn doors were torn off, 20 fruit trees were topped

over, and some oak trees 6 feet in diameter were twisted out of the ground on one farm (loss \$5,000) and the home lost its front door and a tree landed on its roof on another farm near Altamont (loss \$1,000). A number of trees were uprooted at Swanton. Chicken houses were demolished and some poultry was killed from Deer Park to Swanton.—J. B., jr.

ERRATA

July, 1942: Page 26—Chewsville, mean temperature and departure should be 73.6 and -0.5, respectively; Mt. Savage Summit, mean temperature should be 66.7.

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.	7:30 p. m.		
Aberdeen, Md.	30.42	26	29.77	23	7.8	38	e.	23	79	60	69	..	57
Annapolis, Md.	30.42	26	29.76	23	8.0	33	85	80	80	..	43
Baltimore, Md.	30.42	26	29.75	23	8.0	34	se.	8	80	58	73	..	83
Elkins, W. Va.	30.39	26	29.85	5	4.4	15	nw.	2	96	66	87	..	38
Harrisburg, Pa.	30.43	26	29.78	23	8.8	37	sw.	15	87	57	76	..	37
Norfolk, Va.	30.38	26	29.79	23	8.8	37	n.	11	84	67	79	..	119
Philadelphia, Pa.	30.43	26	29.77	23	9.3	37	sw.	16	85	58	74	..	55
Pittsburgh, Pa.	30.38	25	29.80	9	7.8	30	sw.	2	89	58	72	..	11
Washington, D. C.	30.43	26	29.76	23	8.8	19	w.	17	84	61	70	..	72

COMPARATIVE DATA FOR AUGUST

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.....	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	9	73.5	93	54	3.33	0.0	7
1898.....	75.3	98	46	6.42	0.0	8	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	9
1900.....	78.8	103	41	3.04	0.0	9	78.7	104	52	2.73	0.0	9
1901.....	74.9	96	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	98	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.....	73.3	100	40	8.15	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	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	75.1	104	53	5.46	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	3.66	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
1941.....	72.9	100	36	3.14	0.0	7	73.6	97	44	3.14	0.0	7
1942.....	72.6	97	35	7.30	0.0	13	73.4	96	45	7.63	0.0	12
Period.....	73.4	109	30	4.54	0.0	10	74.5	107	44	4.99	0.0	9

Climatological Data for August 1942

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, With precip. 0.01 in. or more, Clear, Partly cloudy, Cloudy), Prevailing direction of wind, and 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 Blackwater, Cambridge; of Coleman, Worton; of Edgemont, Smithsburg; of Fallston, Bagley; of Ferry Landing, Owings; of Great Falls, Bethesda; of Mt. Savage Summit, Frostburg; of Odessa, Middletown; of Peadary, Paw Paw, W. Va.; of Pleasant Hill, Owings Mills; of Prettyboy 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. ‡2 miles northwest of Frostburg. §Municipal Building. ¶Porter Reservoir. ||Water Pumping Station. |||University Farm. ¶¶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, Chestertown, 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, Conowingo Dam, Cumberland, and Pocomoke City, are for 24-hour period ending late in afternoon, near sunset, except 9:30 p. m. at Princess Anne.

Daily Precipitation for August 1942

Table with columns for Stations (Maryland), Drainage basin, Day of month (1-31), and Total. Rows list various stations like Aberdeen, Annapolis, Baltimore, etc., with their respective precipitation values 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.
5 Precipitation is measured at 1:30 a.m.; amount then recorded is entered on preceding day.
6 Precipitation is measured with recording gage.
7 Precipitation is included in the next measurement.
T. Trace, or precipitation is less than .01 inch.
8 Two miles northwest of Frostburg.
9 Municipal Building.
10 Porter Reservoir.
11 Water Pumping Station.
12 University Farm.

Daily Temperatures for August 1942

Table with columns for Stations (Delaware), Day of month (1-31), and Mean. Rows list various stations like Bridgeville, Delaware City, Dover, etc., with their maximum and minimum temperatures for each day.

Daily Temperatures for August 1942-Continued

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

See page 30 for explanation of reference marks.