

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 August was sunny and moderately warm. Monthly rainfall was deficient, except above normal in south-central Maryland. The bulk of the monthly rainfall fell during the northeast wind and rain storm of the 2-3d, except in western Maryland. The second decade was dry and hot. Temperatures were warm or very warm, except cool on the 2d-9th, 19-20th, 22d, and 24-29th. The 4th and 5th were hot days. The 11-17th was the hottest week of this summer. Monthly sunshine was 10% above normal. There were no damaging winds.

The rainfall distribution of the 2-3d was unique. Totals were trace to 0.4 inch in western Maryland; between 1 inch and 2 inches over the southern Eastern Shore and in northern north-central Maryland, except between 0.4 and 1 inch in northern Frederick County; between 2 and 3.5 inches over the northern Eastern Shore; between 2 and 4 inches in southern north-central Maryland; and between 4 and 6 inches in southern Maryland, except between 1 inch and 4 inches over the extreme southern portion thereof and above 6 inches in the District of Columbia and Prince Georges County with a maximum of 7.72 inches at Cheltenham.

Monthly rainfall totals ranged from between 1 inch and 2 inches in eastern Garrett, Allegany, Washington, Frederick, and Carroll Counties and in Dorchester, extreme southern Calvert and southeastern St. Mary's Counties to above 6 inches in northern Calvert, Charles, and Montgomery Counties and the District of Columbia with a maximum of 9.32 inches at Cheltenham.

Vegetation in the central and eastern divisions was benefited greatly and improved by the heavy rain of the 2-3d and by showers of the 6-7th, but was affected adversely by the hot dry weather of the second decade. Grasses and pastures were poor in western Maryland throughout the month; they declined to poor during the third decade in the central and eastern divisions. Growing crops continued ahead of normal and were mostly fair to good, except poor to fair in western Maryland. Late potato plants declined to poor or fair during the second decade.

Cutting oats ended the first decade in northern counties, except the second decade in the Allegheny Mountain region. Cutting early tobacco began the second decade. During the third decade: digging early potatoes, a poor crop, ended, except not yet begun in the Allegheny Mountain region; cutting field corn began in some localities of the eastern and central divisions; sweet potatoes were making and were developing; and cutting buckwheat began. Threshing grains, haying, picking tomatoes, pulling sweet corn, harvesting truck crops, cantaloupes, and watermelons, and picking apples, peaches, and pears were in progress.

## TEMPERATURE

The monthly mean for the section, 74.2°, is 0.7° above normal. The highest monthly mean was 78.5° at Solomons; the lowest, 66.2°, at Sines. The highest temperature, 102°, occurred at Clear Spring on the 11th, at Cumberland on the 12th, and at Keedysville on the 12th and 13th; the lowest, 34°, at Oakland on the 25th and 27th. The greatest local monthly range was 62° at Clear Spring; the least, 34°, at Annapolis.

## PRECIPITATION

The monthly average for the section, 3.46 inches, is 1.05 inches below normal. The greatest monthly rainfall was 9.32 inches at Cheltenham; the least, 1.03 inches at Luke. The greatest 24-hour rainfall was 7.72 inches at Cheltenham on the 2-3d.

## ERRATA

July 1944. —Page 25: Severe thundergusts, "loss \$7,500; many trees uprooted." should appear after "were wrecked," in fourth line.

Miscellaneous Phenomena. Hail, heavy. —Longwoods, 7:00 p. m., E. S. T., to Easton, 7:30 p. m., E. S. T., 16th; from north to south; path 5 miles wide and 10 miles long; loss of corn, tomatoes, and other crops, estimated at \$200,000. Trappe district, 8:15 p. m., E. S. T., 16th; from north to south; path 1 to 2 miles wide and 6 miles long; hailstones were very large; a hailstone 3 inches thick was found by Mr. Harvey R. Munshaw of Trappe; many window panes were broken at Trappe; loss of corn, tomatoes, and other crops estimated at \$50,000.

Beltsville, evaporation should be 8.631.

Page 26: Chestertown, greatest precipitation in 24 hours should be 1.76 on 27. Elkton, number of days with 0.01 inch or more should be 7.

## MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs, light. —1 to 5, 7 to 9, 11 to 13, 17, 18, 22, 23, 25, 26, 28 to 31. Fogs, dense. —1, 2, 4, 7, 8, 22, 23, 28, 29, 30. Hail, light. —Bell, 23. Halos, lunar. —1, 31. Rainbow. —Clear Spring, 23. Thundergusts, high. —7, 14, 18. Thunderstorms. —5, 6, 7, 13, 14, 16, 18, 22, 23, 31. Winds, high. —Northeast, 2; northwest, 24.

## 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)

Precipitation, 6.58; evaporation, 6.460; average daily wind movement, 56.9.

## 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.	30.41	20	29.67	17	8.2	34	ne.	2	76	55	70	65	65
Annapolis, Md.	30.36	20	29.65	17	8.2	34	ne.	2	84	55	72	73	73
Baltimore, Md.	30.40	20	29.67	17	9.4	34	ne.	2	75	50	62	75	125
Elkins, W. Va.	30.39	20	29.77	17	4.4	16	s.	13	94	56	75	58	3
Harrisburg, Pa.	30.39	20	29.65	17	9.2	27	e.	21	80	46	59	77	103
Norfolk, Va.	30.37	20	29.75	17	6.7	26	s.	8	82	57	72	73	106
Philadelphia, Pa.	30.39	20	29.64	17	8.2	24	e.	2	79	47	60	64	97
Pittsburgh, Pa.	30.33	27	29.75	17	8.3	45	s.	13	83	53	63	57	45
Washington, D. C.	30.39	20	29.70	17	6.1	23	ne.	2	80	49	65	70	101

## 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	103	49	2.73	0.0	7
1896	74.2	100	34	1.77	0.0	6	75.8	100	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	8
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	45	1.62	0.0	9
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	3.00	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	6.37	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	8
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	4.98	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	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	45	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
1943	75.5	102	38	1.42	0.0	6	75.8	100	47	1.30	0.0	6
1944	74.2	102	34	3.46	0.0	7	75.0	98	43	3.50	0.0	6
1945												
Period	73.4	109	30	4.46	0.0	10	74.5	107	43	4.89	0.0	9

Climatological Data for August 1944

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

All departures from normal are computed from the averages of the entire period for stations having 10 or more years of record, except that for First-Order Weather Bureau Stations they are based on adopted normals. The normal may be found by adding the departures when minus (-) or subtracting when plus (+). T. Trace or 0.005 inch or less rain or melted snow. 1 Recording gage. Italics, Data interpolated. Elevations are of ground above mean sea level.

†Post addresses of these stations are as follows: Of Bell, Glenndale, 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 Picardy, Paw Paw, W. Va.; 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. ‡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 Postoffice. †††1.8 miles west.

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; at other stations temperatures are for a 24-hour period ending in late afternoon or near sunset, except 9 p. m. at Chestertown. Italics, Data interpolated.



Daily Temperatures for August 1944-Continued

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

See page 30 for explanation of reference marks.