

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 month was quite warm, unusually dry, and sunny. It was the first warm August since 1939 and the second driest August of record. It was as warm as the preceding July, but 1.0° cooler than the preceding June. Monthly sunshine was 10% above normal.

Temperatures were warm or very warm for the season, except cool during the 17-20th and 27-30th. There were several hot days.

Monthly rainfall averaged 31% of normal. Totals were mostly between 1 inch and 2 inches in the northern-border counties, except between 2 and 8 inches in western Garrett County; between 1 inch and 4 inches in Somerset, Wicomico, and Worcester Counties; and mostly between 0.5 and 1 inch over the remainder of the section, except between 0.07 and 0.5 inch in northeastern and southern Anne Arundel, northern Calvert, Dorchester, Talbot, Caroline, and southern Queen Annes Counties.

Crops and pastures were fair to good in Garrett County and fair in the La Plata district. Over the remainder of the section crops deteriorated from mostly fair to poor or very poor and pastures from mostly poor to dry or brown. The damage to growing crops was 30 to 50%. Feed and hay were fed to livestock because of no pasturage.

In the Allegheny Mountain region picking tomatoes and cutting sweet corn began the first week, cutting oats ended the third week, and digging early potatoes began the fourth week. Over the remainder of the section picking tomatoes and cutting sweet corn continued, digging sweet potatoes began the first half of the month, digging early potatoes, a poor crop, ended in the southern and central counties the second week and in the northern counties the third week, cutting early tobacco began the third week, and cutting early field corn began the fourth week.

Picking cucumbers, lima beans, snap beans, other truck crops, cantaloupes, watermelons, and early tree fruits and threshing grains and clover seed were in progress. Late potato tubers were developing the fourth week in western Maryland.

For the section the summer of 1943 was as warm as the summer of 1900, with a mean temperature of 75.9°, or 2.7° above normal; these were the warmest summers since 1872. This summer was the second driest summer of record, with an average total rainfall of 6.63 inches, or 6.17 inches below normal; the driest summer was 1930 with an average total rainfall of 5.97 inches. —J. B. jr.

TEMPERATURE

The monthly mean for the section, 75.6°, is 2.1° above normal. The highest monthly mean was 80.4° at Solomons; the lowest, 65.0°, at Sines. The highest temperature, 102°, occurred at Keedysville on the 14th; the lowest, 38°, at Sines on the 19th. The greatest local monthly range was 58° at Tonoloway; the least, 31°, at Annapolis.

PRECIPITATION

The monthly average for the section, 1.40 inches, is 3.13 inches below normal. The greatest monthly rainfall was 7.45 inches at Oakland; the least, 0.07 inch at Easton. The greatest 24-hour rainfall was 3.10 inches at Salisbury at night of the 16-17th.

ERRATA

July, 1943.—Page 25: 80.5° in second line of paragraph headed TEMPERATURE should be 81.0°. Page 26: The monthly mean temperature and the departure from the normal, respectively, should be: Crisfield, 81.0, +3.4; Easton, 77.6, +1.3. The date of highest temperature at Sines should be 17.

MISCELLANEOUS PHENOMENA (WITH DATES)

Auroras.—Grantsville, 30, 31 (very brilliant).

Fogs, light.—2 to 5, 7, 9, 11 to 14, 17, 20 to 31. *Fogs, dense.*—3, 4, 5, 12, 16, 23, 25 to 31.
Hail, light.—Ferry Landing, 10; Cheltenham, 27. *Hail, lunar.*—Oxford, 12.
Thunderstorms.—1, 3, 4, 5, 9, 10, 13, 14, 16, 24, 26, 27.

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)

Month	Temperature					Precipitation (total)	Evaporation (inches)
	Mean	High	Date	Low	Date		
August 1943	76.0	100	14	48	20	1.44	8.334

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.	30.09	21	29.59	16	7.6	22	s.	12	79	49	66	75	
Annapolis, Md.	30.10	21	29.59	16	8.1	21	s.	3	79	51	66	96	
Baltimore, Md.	30.13	21	29.61	16	8.5	25	se.	12	74	47	60	156	
Elkins, W. Va.	30.20	31	29.65	16	4.2	18	sw.	4	96	57	84	53	
Harrisburg, Pa.	30.11	20	29.60	16	6.5	29	sw.	4	78	51	82	75	
Norfolk, Va.	30.13	31	29.66	16	8.3	21	ne.	11	86	58	76	129	
Philadelphia, Pa.	30.11	21	29.59	16	7.2	22	n.	10	77	45	59	91	
Pittsburgh, Pa.	30.17	19	29.61	16	8.1	24	nw.	14	84	62	61	58	
Washington, D. C.	30.10	21	29.64	16	5.6	18	n.	10	76	44	58	158	

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
1896	74.2	100	34	1.77	0.0	6	75.8	103	50	1.57	0.0
1897	71.6	95	39	3.53	0.0	8	73.5	93	54	3.33	0.0
1898	75.3	98	46	6.42	0.0	9	76.7	95	53	5.07	0.0
1899	74.1	102	41	4.00	0.0	9	74.4	96	52	4.91	0.0
1900	78.8	103	41	3.94	0.0	9	78.7	104	52	2.79	0.0
1901	74.9	98	42	5.72	0.0	10	76.7	95	57	7.13	0.0
1902	71.6	100	33	2.11	0.0	7	73.1	96	48	1.62	0.0
1903	71.0	100	37	5.25	0.0	13	72.4	99	49	4.58	0.0
1904	71.8	97	31	2.96	0.0	8	72.8	94	46	2.42	0.0
1905	72.9	104	38	5.19	0.0	11	73.3	98	51	6.49	0.0
1906	75.6	96	47	8.32	0.0	16	76.9	97	59	9.25	0.0
1907	71.3	95	39	4.40	0.0	11	73.8	95	61	3.29	0.0
1908	71.7	101	34	4.98	0.0	9	72.1	97	48	5.06	0.0
1909	71.7	99	33	3.11	0.0	7	72.3	95	48	2.97	0.0
1910	72.3	95	34	2.79	0.0	9	72.9	92	51	3.32	0.0
1911	74.7	104	37	9.95	0.0	15	75.4	99	51	9.87	0.0
1912	71.5	99	36	2.93	0.0	9	73.8	97	49	1.87	0.0
1913	73.0	101	38	3.90	0.0	9	74.0	99	52	3.60	0.0
1914	74.4	102	38	4.84	0.0	9	76.5	100	55	3.94	0.0
1915	72.4	102	38	8.22	0.0	15	74.5	101	49	8.05	0.0
1916	74.1	101	38	2.42	0.0	7	74.9	99	49	1.14	0.0
1917	73.3	100	40	3.15	0.0	8	75.0	98	51	3.54	0.0
1918	76.0	109	40	3.19	0.0	9	76.7	107	48	1.55	0.0
1919	71.9	96	37	5.37	0.0	11	72.5	94	51	9.64	0.0
1920	73.4	95	42	6.86	0.0	16	74.5	91	52	8.13	0.0
1921	71.2	97	37	3.70	0.0	8	72.3	98	49	3.82	0.0
1922	71.6	98	31	3.19	0.0	10	72.9	91	51	4.79	0.0
1923	72.7	98	34	3.12	0.0	11	73.0	96	45	2.78	0.0
1924	73.3	103	35	4.00	0.0	8	74.2	100	49	4.57	0.0
1925	71.6	98	35	2.38	0.0	8	72.4	95	45	3.39	0.0
1926	74.8	104	42	6.54	0.0	14	76.1	101	55	5.66	0.0
1927	68.4	92	36	3.97	0.0	13	69.6	91	47	4.96	0.0
1928	75.5	99	41	9.09	0.0	12	77.0	100	55	10.00	0.0
1929	71.3	99	35	2.69	0.0	7	72.7	97	45	2.84	0.0
1930	73.7	108	30	1.93	0.0	6	74.4	102	46	1.89	0.0
1931	73.6	101	40	7.44	0.0	15	75.8	101	56	9.88	0.0
1932	74.6	104	38	2.55	0.0	7	75.7	100	50	2.12	0.0
1933	73.8	100	40	10.00	0.0	12	75.6	98	56	12.73	0.0
1934	72.0	97	32	4.94	0.0	10	72.9	94	44	5.40	0.0
1935	74.1	100	36	3.22	0.0	9	74.6	99	49	3.66	0.0
1936	75.8	101	39	4.11	0.0	10	76.4	100	50	6.08	0.0
1937	75.5	100	44	6.87	0.0	13	76.1	95	55	8.29	0.0
1938	76.2	100	38	2.61	0.0	6	76.8	98	49	3.40	0.0
1939	76.1	99	44	4.20	0.0	8	76.8	97	54	9.50	0.0
1940	71.3	97	38	5.29	0.0	13	72.3	95	48	5.69	0.0
1941	72.9	100	36	3.14	0.0	7	73.6	97	44	3.14	0.0
1942	72.6	97	35	7.30	0.0	13	73.4	96	45	7.63	0.0
1943	75.5	102	38	1.42	0.0	6	75.8	100	47	1.30	0.0
Period	73.4	109	30	4.47	0.0	10	74.5	107	44	4.92	0.0

Climatological Data for August 1943

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, 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. 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 Picardy, 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. ‡On mountain top, 24 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. Elevations are of ground above mean sea level. 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; other stations, except Blackwater, Cheltenham, Chestertown, Conowingo Dam, Cumberland, and Pocomoke City, are for 24-hour period ending late in afternoon, near sunset. §Thermometers are read at 9 p. m.

Daily Precipitation for August 1943

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.
* First-order Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.
† Precipitation is for 24-hour period, midnight to midnight.
‡ Precipitation is measured in the morning; amount then recorded is for the preceding 24 hours.
§ Precipitation is measured at 1:30 a.m.; amount then recorded is entered on preceding day.
¶ Precipitation is measured with recording gage.
* Precipitation is measured in the next measurement.
T Trace, or precipitation is less than .01 inch.
‡ Precipitation is for 24-hour period, 9 p.m. to 9 p.m.
|| Water Pumping Station.
||| University Farm.
§§ Municipal Building.
§§§ Porter Reservoir.

Daily Temperatures for August 1943

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

Daily Temperatures for August 1943-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 data.

See page 30 for explanation of reference marks.

(WBO, Richmond, Va., 10-6-43-1,200)