

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

The summer drought continued this month, which was cool, sunny, and dry. There were many pleasant days. Monthly sunshine was 5% above normal. Monthly rainfall was unevenly distributed, but averaged 56% of normal. Monthly rainfall over a 15-mile belt south of the Pennsylvania Line from Garrett County to Baltimore County, inclusive, was the least of record for that area in September. Underground water was low.

Monthly rainfall was decidedly below normal over the northern third of the section and well below normal over the remainder of the section, except above normal in eastern Sussex, Wicomico, Worcester, and Somerset Counties, at Solomons, at Annapolis, in Prince Georges and southern Montgomery Counties, and in the District of Columbia. Totals were mostly between 0.1 and 0.5 inch in western Maryland and northern New Castle County; mostly between 0.5 and 1.0 inch in the northern-border counties of north-central Maryland and in northern and central Cecil and central New Castle Counties; between 1 inch and 2 inches over a narrow belt south of the preceding area, over the west-central portion of the Eastern Shore, and in Charles and St. Marys Counties, except more than 3 inches in the areas of above-normal rainfall with greatest of 5.10 inches at Takoma and 6.25 inches at Snow Hill.

Crops and pastures were fair to good during the first and second decades and fair during the third decade in Garrett County and the La Plata district. Over the remainder of the section crops were poor or very poor and pastures were dry or brown. Feed and hay were fed to livestock.

Cutting field corn began and cutting buckwheat ended during the second decade and digging early potatoes ended during the last week in Garrett County. Digging late potatoes began during the second decade in western Maryland. Late potato tubers formed and were developing in the central and eastern divisions. Filling silos and husking corn began during the second week. Picking tomatoes, apples, peaches, and pears, cutting field corn, sweet corn, early tobacco, and soybeans, digging sweet potatoes, harvesting truck crops, and threshing clover were in progress. Some wheat, rye, barley, clover, alfalfa, and spinach were sown in some areas:—*J. B., jr.*

### TEMPERATURE

The monthly mean for the section, 65.9°, is 1.8° below normal. The highest monthly mean was 71.1° at Crisfield; the lowest, 55.4°, at Sines. The highest temperature, 99°, occurred at Charlotte Hall, Huntingtown, and Milford on the 1st and at Snow Hill on the 2d; the lowest, 25°, at Chewsville on the 26th and at Oakland on the 27th. The greatest local monthly range was 71° at Tonoloway; the least, 44°, at Ocean City.

### PRECIPITATION

The monthly average for the section, 1.84 inches, is 1.45 inches below normal. The greatest monthly rainfall was 6.25 inches at Snow Hill; the least, 0.04 inch at Luke. The greatest 24-hour rainfall was 3.15 inches at Cheltenham on the 3d-4th.

### MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs, light.—1, 3, 4 to 7, 9, 10, 15, 16, 18, 19 to 23, 25, 27 to 30. Fogs, dense.—3 to 7, 9, 15, 21, 22, 23, 27, 29. Frosts, light.—Allegheny Mountain highlands, 10, 14; Allegheny Mountain region, 12; Piedmont Plateau, 13, 18, 19, 27; west and central portion of north-central Maryland and west portion of southern Maryland, 26. Frosts, light to killing.—Western Maryland, 13, 19. Frosts, killing.—Allegheny Mountain highlands, 11, 24, 25, 27, 28, 29; western Maryland, 18; western Maryland and central Frederick County, 26.

Halos, lunar.—13, 19, 20. Halo, solar.—24. Sundog.—Chewsville, 16. Thunderstorms.—2, 3, 7, 8, 9, 16. Winds, moderately strong.—7, 9, 30 (strong on the coast).

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		
September 1943..	64.4	96	1	35	27	2.92	5.293

### PRESSURE, HUMIDITY, SUNSHINE, WIND, DEGREE DAYS

Stations	Atmospheric pressure reduced to sea level				Wind			Mean relative humidity			Percentage of sunshine	Heating degree days (base 65°)
	Highest	Date	Lowest	Date	Average hourly velocity with .01 in. or more	Maximum velocity	Direction	7:30 a. m.	1:30 p. m.	7:30 p. m.		
Aberdeen, Md.....	30.53	18	29.84	6	7.6	28	n.	78	63	63	94	45
Annapolis, Md.....	30.54	18	29.83	7	9.7	15	w.	75	48	66	68	54
Baltimore, Md.....	30.55	18	29.82	6	8.4	25	w.	58	54	84	61	216
Elkins, W. Va.....	30.55	18	29.82	6	8.4	25	w.	17	79	45	55	65
Harrisburg, Pa.....	30.54	18	29.80	30	8.7	33	nw.	30	84	65	79	64
Norfolk, Va.....	30.45	18	29.66	7	8.5	31	sw.	30	82	46	53	69
Norfolk, Va.....	30.49	18	29.82	6	8.5	31	sw.	6	82	42	63	59
Pittsburgh, Pa.....	30.54	18	29.78	6	6.2	20	uw.	2	79	52	64	63
Washington, D. C.....	30.53	18	29.83	7	6.2	20	uw.	2	79	52	64	63

### COMPARATIVE DATA FOR SEPTEMBER

Year	FOR MARYLAND					FOR DELAWARE						
	Temperature			Precipitation		Temperature			Precipitation			
	Mean	Highest	Lowest	Average	Average snowfall with .01 in. or more	Mean	Highest	Lowest	Average	Average snowfall with .01 in. or more		
1895.....	70.4	101	27	2.08	T.	4	71.2	99	39	1.92	0.0	4
1896.....	66.3	94	28	4.39	0.0	8	67.1	93	36	3.96	0.0	3
1897.....	66.7	100	22	1.67	0.0	3	67.9	97	40	1.55	0.0	7
1898.....	69.3	100	29	1.80	0.0	5	70.3	97	44	3.35	0.0	6
1899.....	65.3	99	25	4.85	0.0	7	66.4	92	39	2.81	0.0	8
1900.....	72.0	103	29	3.47	0.0	6	71.6	95	45	2.75	0.0	6
1901.....	66.4	94	29	3.08	0.0	8	68.1	94	42	2.45	0.0	10
1902.....	66.0	101	25	6.19	0.0	10	67.4	92	42	6.14	0.0	6
1903.....	66.0	98	24	1.97	0.0	5	67.2	90	36	3.29	0.0	6
1904.....	67.0	99	27	3.66	0.0	5	67.5	95	33	3.21	0.0	5
1905.....	67.0	94	24	2.68	0.0	6	67.8	91	38	4.81	0.0	8
1906.....	70.6	94	36	1.25	0.0	6	72.2	98	47	1.51	0.0	6
1907.....	68.2	95	30	6.21	0.0	12	69.6	93	35	6.39	0.0	11
1908.....	65.9	94	24	2.39	0.0	3	66.8	90	40	2.49	0.0	4
1909.....	65.4	92	23	3.35	0.0	5	66.5	87	39	2.94	0.0	5
1910.....	69.4	98	32	1.90	0.0	6	69.9	96	46	0.76	0.0	4
1911.....	69.2	95	30	2.80	0.0	8	69.6	91	41	2.00	0.0	6
1912.....	69.1	102	30	5.93	0.0	10	70.2	102	39	4.65	0.0	10
1913.....	66.5	102	22	2.65	T.	7	68.1	91	41	3.92	0.0	8
1914.....	64.6	98	21	1.20	0.0	4	66.5	97	34	0.68	0.0	3
1915.....	69.2	98	31	2.25	0.0	6	71.1	99	36	0.90	0.0	4
1916.....	65.1	98	26	3.39	0.0	7	66.5	94	38	3.64	0.0	6
1917.....	62.5	93	27	2.62	0.0	7	63.5	91	37	3.35	0.0	6
1918.....	63.2	88	27	3.73	0.0	8	64.2	87	37	3.92	0.0	8
1919.....	68.1	100	31	2.34	0.0	4	68.3	94	40	2.23	0.0	4
1920.....	67.7	92	35	3.11	0.0	6	68.4	89	40	2.87	0.0	6
1921.....	72.5	99	37	3.48	0.0	9	73.4	98	45	2.16	0.0	7
1922.....	68.6	100	27	2.61	0.0	4	68.9	93	39	2.26	0.0	4
1923.....	68.2	92	28	3.45	0.0	9	68.8	93	39	3.93	0.0	8
1924.....	62.9	101	30	6.06	0.0	12	64.8	98	40	5.68	0.0	11
1925.....	71.4	100	35	1.78	0.0	7	72.3	94	39	1.06	0.0	4
1926.....	67.8	98	35	5.15	0.0	11	68.5	93	44	3.31	0.0	7
1927.....	67.8	99	28	1.36	0.0	4	68.0	96	35	2.04	0.0	5
1928.....	63.1	92	28	4.45	0.0	10	64.9	93	34	6.57	0.0	12
1929.....	68.2	100	25	3.58	0.0	8	69.4	96	40	3.99	0.0	8
1930.....	72.9	102	33	1.31	0.0	6	73.8	100	42	2.80	0.0	5
1931.....	72.0	100	30	2.61	0.0	8	73.5	98	43	2.00	0.0	5
1932.....	67.9	106	25	2.20	0.0	6	69.3	97	37	2.20	0.0	6
1933.....	70.0	94	37	3.20	0.0	11	71.6	94	46	3.44	0.0	10
1934.....	68.5	92	36	9.36	0.0	14	70.0	90	46	9.12	0.0	13
1935.....	65.0	92	28	7.60	0.0	8	66.2	87	38	10.97	0.0	6
1936.....	69.3	97	29	2.14	0.0	7	69.5	92	42	4.79	0.0	9
1937.....	64.1	96	26	1.75	0.0	6	65.4	93	38	1.48	0.0	6
1938.....	65.6	92	32	5.80	0.0	13	67.3	90	39	3.36	0.0	12
1939.....	68.7	100	31	3.25	0.0	7	69.5	95	44	1.97	0.0	7
1940.....	64.4	95	25	3.35	0.0	6	65.6	91	32	3.20	0.0	6
1941.....	70.0	100	31	0.87	0.0	3	71.0	97	33	0.24	0.0	2
1942.....	68.0	95	19	3.03	0.0	8	69.3	92	32	2.75	0.0	8
1943.....	65.7	99	25	1.85	0.0	6	67.4	99	36	1.79	0.0	6
Period.....	67.6	106	19	3.28	T.	7	68.6	102	32	3.37	0.0	7

Climatological Data for September 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), Number of days (With precip., 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, 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 Pearly, Paw Paw, Va.; of Pleasant Hill, Owings Mills; of Pretyboy 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. 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 Temperatures for September 1943-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 for each day.

See page 34 for explanation of reference marks.