

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 June with rainfall above normal terminated a six-months period of deficient precipitation. The mean temperature and the monthly sunshine were slightly below normal. Cool weather prevailed during the 1st-18th and warm weather thereafter. Thundershowers were the rule, except for prolonged rains during the 3d-5th and 12-13th. Rainfall totaled 4 to 5 inches during the 3d-4th in the Allegheny Mountain region. A thundershower on the 15th at College Park yielded 1.93 inches in 30 minutes and one on the 23d at Baltimore yielded 2.25 inches in 30 minutes and 3.24 inches in one hour.

Growing crops improved from fair to good and grasses and pastures from poor to fair during the first decade. Growing crops and grasses were good to excellent and pastures were mostly good during the second and third decades. Planting corn ended during the first decade. Harvesting peas ended during the second decade in the southern and central counties and during the third decade in the northern counties, except began in Allegany and Garrett Counties. Harvesting strawberries ended during the second decade in the northern counties, except began in Garrett County. These crops were short and poor. Hay yields were good. During the third decade: Barley, harvested during the first and second decades, was being threshed and yielding good; wheat and rye were being harvested and early potatoes were maturing or were matured, except in the Allegheny Mountain region; oats were being harvested in the eastern and central divisions; corn plants were good color and 2 to 4 feet high; sugar corn was tasseling; early tomatoes were developing, sizing, and maturing; early varieties of apples, peaches, and pears were ripening; setting out tomato and sweet potato plants ended; setting out tobacco plants was not finished; late potato plants in western Maryland were growing nicely; and planting late potatoes began in the central and eastern divisions. — J. B., jr.

TEMPERATURE

The monthly mean for the section, 70.5°, is 0.2° below normal. The highest monthly mean was 73.8° at Crisfield; the lowest, 62.8°, at Mt. Savage Summit. The highest temperature, 97°, occurred at Cumberland on the 27th; the lowest, 34°, at Oakland on the 11th. The greatest local monthly range was 55° at Keedysville; the least, 33°, at Crisfield. The greatest daily range was 43° at Keedysville and Sines on the 7th.

PRECIPITATION

The monthly average for the section, 4.92 inches, is 0.92 inch above normal. The greatest monthly amount was 10.09 inches at Friendsville; the least, 1.01 inches, at Crisfield. The greatest 24-hour rainfall was 3.65 inches at Baltimore on the 23d and at Sines on the 3d-4th. The average number of days with 0.01 inch or more of rainfall, 11, is 1 above normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Hail, light.—Keedysville district, 47 baby chicks killed 2 miles south of Keedysville, 14; Baltimore, 14, 15, 17; Dundalk, Monie, Pleasant Hill, Pocomoke City, Princess Anne, Ridgely, Sharpsburg, and Trego, 15; Oakland, 17. Hail, moderate.—Seven miles north of Bel Air, narrow strip one-half mile long; some tree fruits and corn plants damaged; 15th. Hail, heavy.—Norman's Creek, Middle River; one-half to one inch in diameter; no damage; 14th. From Westover east-northeastward through Cokesbury and Snow Hill to Sinepuxent Bay, path 30 miles long; size moth balls to hen eggs; corn and tomato plants and tomatoes and snap beans ready to pick ruined and 400 chickens killed; loss about \$50,000; 15th. Georges Creek Valley, path 10 miles long; one inch to one and one-half inches in diameter; slight damage to crops; 17th. White Hall, 2 mile area; size 50-cent pieces; crop loss \$600; other loss \$25; 23d. Lightning damaged home slightly at Moscow and killed 3 horses, loss \$300, near Hagerstown on 17th. Thundershowers.—3, 4, 12, 13, 14, 15, 17, 23, 28, 29, 30. Winds, strong.—3, 28; thundergusts, 15, 17, 23; no damage.

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.	30.19	20	29.49	5	7.6	24	n.	5	80	..	74	..	39
Annapolis, Md. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
Baltimore, Md.	30.22	20	29.52	5	9.0	38	ne.	23	76	58	72	62	32
Elkins W. Va.	30.30	20	29.55	5	4.7	22	n.w.	13	91	58	75	59	33
Harrisburg, Pa.	30.23	20	29.55	5	6.8	23	e.	23	77	52	63	67	51
Norfolk, Va.	30.26	21	29.50	5	8.8	33	n.	14	83	64	79	66	51
Philadelphia, Pa.	30.23	26	29.53	5	11.5	31	n.	5	78	53	64	60	60
Pittsburgh, Pa.	30.26	21	29.49	4	8.7	35	n.w.	7	78	53	59	55	27
Washington, D. C.	30.22	20	29.49	5	5.2	24	sw.	15	78	54	64	59	60

COMPARATIVE DATA FOR JUNE

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.....	73.1	102	37	4.15	0.0	8	73.9	101	47	2.91	0.0	8
1896.....	70.3	100	32	3.88	0.0	11	70.8	97	42	5.27	0.0	10
1897.....	68.6	97	29	2.82	0.0	9	68.9	95	34	2.83	0.0	9
1898.....	72.0	100	33	1.58	0.0	6	71.5	97	49	3.04	0.0	7
1899.....	73.4	102	36	2.94	0.0	7	74.2	100	51	1.50	0.0	7
1900.....	71.5	100	36	4.70	0.0	9	72.2	101	45	4.54	0.0	6
1901.....	71.0	102	32	3.15	0.0	8	72.1	95	48	2.32	0.0	6
1902.....	70.0	104	31	4.79	T.	9	71.3	101	45	6.25	0.0	7
1903.....	66.3	96	35	5.71	0.0	13	66.5	91	46	3.45	0.0	11
1904.....	70.2	98	30	4.60	0.0	12	70.5	99	44	3.99	0.0	12
1905.....	71.2	102	25	4.50	0.0	10	71.2	99	43	3.88	0.0	9
1906.....	71.9	101	36	5.96	0.0	15	73.0	97	51	7.37	0.0	14
1907.....	64.8	96	32	5.75	0.0	12	65.6	94	43	5.44	0.0	11
1908.....	70.4	99	39	2.14	0.0	5	71.7	98	46	1.98	0.0	8
1909.....	71.8	98	32	5.06	0.0	14	73.1	98	48	4.37	0.0	13
1910.....	67.7	96	30	5.74	T.	14	68.2	95	45	6.37	0.0	14
1911.....	71.5	102	39	4.14	0.0	12	72.0	101	50	3.62	0.0	9
1912.....	69.2	99	25	4.07	0.0	10	71.0	95	42	2.01	0.0	8
1913.....	71.1	100	27	2.25	0.0	7	71.7	98	45	2.39	0.0	7
1914.....	72.3	101	26	3.93	0.0	10	72.8	101	45	3.09	0.0	10
1915.....	68.4	98	31	5.03	0.0	10	69.4	94	43	5.30	0.0	12
1916.....	67.0	95	33	6.23	0.0	12	68.3	89	45	3.95	0.0	10
1917.....	70.1	97	32	4.07	0.0	10	71.6	96	48	4.48	0.0	10
1918.....	68.7	98	34	2.31	0.0	8	69.3	99	46	2.92	0.0	8
1919.....	72.2	98	40	3.27	0.0	9	71.5	96	43	2.24	0.0	7
1920.....	70.0	98	34	5.34	0.0	11	71.0	97	49	5.57	0.0	11
1921.....	72.3	102	34	2.47	0.0	7	72.6	100	42	2.73	0.0	6
1922.....	72.8	97	38	6.12	0.0	12	73.5	98	50	5.39	0.0	14
1923.....	73.5	102	34	3.06	0.0	9	74.8	100	44	2.37	0.0	8
1924.....	69.3	99	33	5.20	0.0	14	69.3	95	45	5.80	0.0	14
1925.....	75.4	104	36	2.37	0.0	7	77.5	102	45	1.81	0.0	7
1926.....	67.4	98	35	2.67	0.0	12	68.8	97	43	2.54	0.0	11
1927.....	66.7	98	31	3.55	0.0	9	67.2	95	42	3.44	0.0	9
1928.....	68.9	94	34	6.79	0.0	16	70.5	92	48	5.70	0.0	7
1929.....	70.2	98	31	5.00	0.0	10	71.6	97	41	3.28	0.0	9
1930.....	72.0	99	26	3.36	0.0	9	73.8	97	35	2.54	0.0	8
1931.....	70.7	102	35	3.38	0.0	8	71.9	98	49	3.76	0.0	7
1932.....	70.6	95	30	3.81	0.0	10	72.0	94	41	3.77	0.0	10
1933.....	72.4	102	28	2.73	0.0	8	73.4	100	48	2.70	0.0	7
1934.....	74.6	105	42	3.29	0.0	7	75.7	101	59	2.90	0.0	7
1935.....	70.4	97	34	4.49	0.0	12	71.2	95	46	5.16	0.0	11
1936.....	70.8	99	34	3.09	0.0	10	71.5	95	47	4.05	0.0	10
1937.....	72.3	99	41	4.91	0.0	12	72.3	92	48	5.50	0.0	12
1938.....	70.1	98	35	3.95	0.0	10	70.8	96	36	5.41	0.0	10
1939.....	72.8	100	40	5.19	0.0	12	73.5	95	47	3.46	0.0	12
1940.....	71.8	96	33	2.20	0.0	9	71.8	94	42	1.95	0.0	7
1941.....	70.4	97	34	5.01	0.0	11	70.9	95	45	4.45	0.0	11
Period.....	70.6	105	25	4.02	T.	10	71.4	102	34	3.84	0.0	9

Climatological Data for June 1941

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), 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.

Post addresses of these stations are as follows: Of Bell, Glendole; of Coleman, Worton; of Fallston, Bagley; of Ferry Landing, Owings; of Great Falls, Bethesda; of Mt. Savage Summit, Frostburg; of Odessa, Middletown; of Picardy, Paw Paw, W. Va.; of Pleasant Hill, Owings Mills; of Prettiboy 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, Conowingo Dam, Sines, and Washington are from midnight to midnight; at Mt. Savage Summit, Ocean City, and Delaware Breakwater the thermometers are read at 1:30 a. m., the extremes are charged to the preceding day; other stations, except Cheltenham, 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 June 1941

Table with columns for Stations (Maryland), Drainage basin, Day of month (1-31), and Total. Rows list various Maryland locations like Aberdeen, Annapolis, Baltimore, etc., with their respective precipitation values.

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 included in the next measurement.
7 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 June 1941

Table with columns for Stations (Delaware), Day of month (1-31), and Mean. Rows list Delaware locations like Bridgeville, Delaware Breakwater, Delaware City, Dover, Milford, Millsboro, Newark, Odessa, Wilmington, with their maximum and minimum temperatures.

Daily Temperatures for June 1941-Continued

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

See page 22 for explanation of reference marks.

(WBO, Richmond, Va., 7-26-41-1,200)