

# CLIMATOLOGICAL DATA

## 15 MARYLAND AND DELAWARE SECTION

J. R. WEEKS

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### GENERAL SUMMARY

This was the warmest June since 1934. Monthly rainfall was above normal, except deficient in the central and southern portions of the Eastern Shore. Prolonged cloudy and humid periods were 1st-4th, 18-20th, and 27-30th. Monthly sunshine was about 5% below normal. Damaging thundergusts occurred on the 11th and 30th.

The weather was warm, except cool during the 2-3d, 7th, 24th, and 26-29th and very cool during the 18-19th.

Warm dry weather of the first decade advanced maturing and ripening of grains; caused deterioration and shortening of other crops, grasses, and pastures; and interrupted plowing and planting. Showers of the second and third decades improved crops, grasses, and pastures, and permitted plowing and planting.

The strawberry harvest ended during the first decade and peas were harvested during the first half of the month in the southern and central counties. The strawberry and pea harvests began during the first decade and ended during the last week in the northern counties, except harvesting peas was not finished in Garrett County.

During the third decade: Barley, previously harvested, was threshed and yielded good; wheat and rye were harvested and harvesting oats and digging early potatoes began in the southern and central counties; in the northern counties harvesting wheat and rye began, oats were ripening, and early potatoes were developing and maturing, except blooming in Garrett County; grasses and pastures were fair to good and corn was good to excellent and was being cultivated, except the former were mostly poor and the latter was mostly fair over the southern and central Eastern Shore; setting out tomato, sweet potato, and tobacco plants was finished; early tomato plants were blooming and fruiting; early sweet potato plants were vining well; early tobacco plants were being cultivated; and early tree fruits were ripening.—*J. B., jr.*

### TEMPERATURE

The monthly mean for the section, 72.9°, is 2.1° above normal. The highest monthly mean was 76.0° at Crisfield; the lowest, 65.1°, at Mt. Savage Summit. The highest temperature, 100°, occurred at Cumberland on the 16th and at Dundalk on the 17th; the lowest, 40°, at Oakland on the 5th. The greatest local monthly range was 52° at Hancock; the least, 32°, at Crisfield. The greatest daily range was 42° at Keedysville on the 6th.

### PRECIPITATION

The monthly average for the section, 4.95 inches, is 0.91 inch above normal. The greatest monthly amount was 10.96 inches at Oakland; the least, 1.20 inches, at Snow Hill. The greatest 24-hour rainfall was 3.50 inches at La Plata on the 13-14th. The average number of days with 0.01 inch or more of precipitation, 12, is 2 above normal.

### MISCELLANEOUS PHENOMENA (WITH DATES)

*Hail, heavy.*—11:30 a. m. to 12 noon, 13th; Glenelg, Howard County northeastward to Randallstown, Baltimore County; path 1 mile wide and 13 miles long; hailstones were one-half to 1 inch in diameter at Granite, the size of camphor balls at Woodstock, and the size of hickory nuts at Randallstown; considerable damage to crops.  
*Lightning* damaged a home at Texas on the 13th; wrecked the chimney and damaged the roof of a home in Cumberland at 2 a. m. of the 18th; and killed one fisherman and injured two other fishermen at the mouth of the Magothy River at 2 a. m. of the 18th.  
*Thundergust, severe.*—Between 4:30 p. m. and 5 p. m., 11th, one and one-half miles north of Emmitsburg, northwest to southeast; path one-fourth mile wide and 2 miles long; wrecked 1 barn, 2 silos, 1 brooder house, and several small buildings, and uprooted some trees; 2 horses, 3 shoats and 75 chickens were killed; loss \$4,000; crop loss \$100. A parallel gust uprooted some trees at Rocky Ridge. Thundergust at 6 p. m., 30th, uprooted a dozen trees and demolished several chimneys at Dover.  
*Thunderstorms.*—1, 2, 8, 10, 11, 13, 17, 18, 19, 20, 22, 28, 29, 30.

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

Stations	Atmospheric pressure reduced to sea level				Wind				Mean relative humidity				
	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	7:30 a. m.	Local n'n	7:30 p. m.	Percentage of sunshine	Cooling degree days (base 75°)
Aberdeen, Md.*	30.25	3	29.67	14	8.3	30	nw.	8	80	76	71	59	59
Annapolis, Md.	30.24	23	29.65	14	7.5	..	..	..	75	65	..	78	78
Baltimore, Md.	30.25	3	29.66	14	9.4	36	sw.	4	75	69	69	103	3
Elkins, W. Va.	30.22	11	29.70	14	4.5	24	nw.	8	93	62	80	68	68
Harrisburg, Pa.*	30.27	3	29.59	14	7.6	31	s.	14	76	50	56	73	73
Norfolk, Va.	30.21	3	29.69	14	8.2	41	nw.	10	79	58	74	59	97
Philadelphia, Pa.*	30.24	3	29.58	14	11.0	35	s.	14	75	53	61	74	77
Pittsburgh, Pa.*	30.21	11	29.64	13	8.6	29	nw.	8	82	54	63	66	13
Washington, D. C.	30.24	3	29.64	14	5.7	23	nw.	10	78	57	67	55	86

\* Observations taken at airport station.

### COMPARATIVE DATA FOR JUNE

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	73.1	102	37	4.15	0.0	0	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	2.93	0.0	7
1898	72.0	100	35	1.58	0.0	6	71.5	97	49	3.04	0.0	9
1899	73.4	102	36	2.94	0.0	7	74.2	100	51	1.58	0.0	7
1900	71.5	100	36	4.70	0.0	9	72.2	95	45	4.54	0.0	6
1901	71.0	102	32	3.15	0.0	8	72.1	101	48	2.82	0.0	7
1902	70.0	104	31	4.79	0.0	13	71.3	101	45	6.25	0.0	11
1903	66.3	96	25	5.71	0.0	12	66.5	91	46	3.45	0.0	12
1904	71.2	102	25	4.50	0.0	10	71.5	99	44	3.99	0.0	12
1905	71.9	101	36	5.96	0.0	15	73.0	97	51	7.87	0.0	14
1906	64.8	96	32	5.75	0.0	12	65.6	94	43	5.44	0.0	11
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	3
1909	71.8	98	32	5.06	0.0	14	72.1	98	48	4.87	0.0	13
1910	67.7	96	30	5.74	T.	14	69.2	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	43	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	48	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	5.12	0.0	12	73.5	93	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	39	5.20	0.0	14	69.3	95	48	5.80	0.0	14
1925	67.4	98	35	2.67	0.0	7	67.5	102	45	1.81	0.0	7
1926	67.4	98	35	2.67	0.0	7	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	5.79	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	3.88	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	43	2.70	0.0	7
1934	74.6	105	42	3.29	0.0	7	75.7	101	53	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
Period	70.7	105	25	4.07	T.	10	71.8	102	34	3.80	0.0	9

Climatological Data for June 1939

Table with columns: STATIONS, COUNTIES, Elevation, Length of record, years, Temperature, in degrees Fahr. (Mean, Departure from the normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation, in inches (Total, Departure from the normal, Greatest in 24 hours, Total snowfall (unmelted), With precip. 0.01 in. or more), Number of days (Clear, Partly cloudy, Cloudy), Prevailing direction of wind, OBSERVERS. Rows list stations like Aberdeen, Annapolis, Baltimore, etc., across various counties.

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 Coleman, Worton; of Fallston, Bagley; of Fallston, Bagley; of Great Falls, Bethesda; of Mt. Savage Summit, Frostburg; of Odessa, Middletown; of Picardy, Paw Paw, W. Va.; of Pleasant Hill, Owings Mills; of Prettyboy Dam, Parkton; of Sines, Oakland. \*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.

Daily Precipitation for June 1939

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 data for each day of the month.

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 with recording gage.
6 Precipitation is included in the next measurement.
T Trace, or precipitation is less than .01 inch.
7 Two miles northwest of Frostburg.
8 Municipal Building.
9 Porter Reservoir.

Daily Temperatures for June 1939

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

Daily Temperatures for June 1939-Continued

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

§§ Instruments are read in morning; maximum temperature then read is charged to preceding day, on which it almost always occurs. Temperatures at Aberdeen, Annapolis, Baltimore, Conowingo Dam, Dundalk, Sines, and Washington are from midnight to midnight; other stations, except Cheltenham and Cumberland, are or 24-hour period ending late in afternoon, near sunset, except 9:30 p.m. at Princess Anne. (WBO, Richmond, Va., 9-14-39-1,050)