

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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GENERAL SUMMARY

The weather was warm during the 1st-12th; moderately cold during the 13-16th, 18-20th, and 23d; cold during the 25-28th; and mild on the other days. The first decade was dry; there-after, precipitation was frequent and mostly in the form of snow, except heavy rain during the 29-30th.

Monthly precipitation was above normal, except below normal in southern Maryland and in eastern Washington County. Monthly snowfall averaged one and seven-tenths times the normal. Monthly sunshine was 5% above normal.

Over the section snowfall was moderate to heavy on the 13-14th; light to heavy on the 18-19th; light on the 16th, 20th-21st, and 24th; and light on the 26-27th, except moderate to heavy in the Allegheny Mountain region. Light snow fell on the 22d and 31st and light to heavy snow on the 25th in the Allegheny Mountain region. Snow flurries occurred on the 25th over northern Maryland eastward of the Allegheny Mountains. Light snow fell on the 31st over the extreme northeast portion of the section.

Winds of gale force of the 22d and 25th broke some plate glass store-front windows, snapped some wires, uprooted some trees, blew down some signs, and unroofed several homes in Baltimore; on the 22d an uprooted tree fell upon and demolished two parked autos and injured two children.

Ice 1 to 2 inches thick formed in extreme northern Chesapeake Bay during the 25-28th, but disappeared on the 31st.

Grains were good to excellent. Pastures and grasses were fair to good. There was some plowing prior to the 13th. On and after the 13th field operations were at a standstill, due to snow-covered ground. The heavy rains of the 29-30th caused the snow to disappear and revealed grains nicely green and pastures and grasses green, except in the Allegheny Mountain region where 4 to 12 inches of snow remained on the ground.

—J.B., jr.

TEMPERATURE

The monthly mean for the section, 35.1°, is 1.4° above normal. The highest monthly mean was 40.8° at Snow Hill; the lowest, 27.8°, at Mt. Savage Summit. The highest temperature, 69°, occurred at Cumberland on the 10th; the lowest, -7°, at Oakland on the 28th. The greatest local monthly range was 71° at Oakland; the least, 41°, at Crisfield and Oxford. The greatest daily range was 45° at Oakland and Sines on the 28th.

PRECIPITATION

The monthly average for the section, 3.67 inches, is 0.37 inch above normal. The greatest monthly amount was 4.79 inches at Millsboro; the least, 2.40 inches, at Chewsville. The greatest 24-hour rainfall was 2.57 inches at Baltimore on the 29-30th. The monthly average snowfall for the section, 11.6 inches, is 4.7 inches above normal. The greatest 24-hour snowfall was 11.5 inches at Luke on the 13th. The average number of days with 0.01 inch or more of precipitation, 11, is 1 above normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs, light: 3 to 7, 9, 10, 13, 14, 16, 18 to 22, 24, 28 to 31; dense: 4, 5, 13, 14, 16, 18, 21, 29, 30, 31.
Halos, lunar: 1, 2, 3, 7, 28, 29, 31.
Halos, solar: 2, 3, 12, 17, 21, 28.
Sleet, light: 13, 18, 21, 24, 30.
Thunderstorms: Eastern Shore, night 5-6; Sussex County, 30.
Winds, high: 2, 5, 6, 8, 10, 11, 13, 14, 22(gale), 24, 25(gale), 27, 28, 30, 31.

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	Maximum velocity	Direction	Date	7:30 a. m.			Local n'n
Aberdeen, Md.*	30.48	28	29.38	30	10.3	41	nw.	25	79	67	59	968
Annapolis, Md.	30.47	28	29.35	30	8.9	45	sw.	22	70	58	68	857
Baltimore, Md.	30.49	28	29.35	30	10.6	45	sw.	22	68	55	62	838
Elkins, W. Va.	30.49	7	29.30	30	8.1	33	nw.	25	79	64	70	910
Harrisburg, Pa.*	30.45	28	29.39	30	8.3	33	nw.	22	78	62	69	1030
Norfolk, Va.	30.55	28	29.37	30	10.0	34	nw.	22	77	59	65	611
Philadelphia, Pa.	30.47	28	29.37	30	13.1	41	nw.	25	72	67	70	946
Pittsburgh, Pa.*	30.42	6	29.33	30	12.6	45	w.	22	82	69	73	911
Washington, D. C.	30.50	28	29.36	30	7.2	34	nw.	22	72	55	59	842

*Observations taken at Airport.

COMPARATIVE DATA FOR JANUARY

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	29.5	66	-17	4.35	13.4	11	31.6	65	7	5.09	6.8	12
1896	32.0	66	-13	1.82	1.0	4	32.0	65	4	1.62	0.6	5
1897	29.1	66	-12	1.94	8.1	7	31.7	64	3	2.00	10.3	6
1898	25.3	72	-2	3.60	5.8	11	36.7	66	15	3.25	0.8	11
1899	31.9	70	-24	3.30	5.7	10	34.8	65	-1	3.65	7.8	11
1900	33.6	69	-8	2.34	1.8	7	34.3	62	6	3.34	1.5	6
1901	32.5	68	-4	2.68	8.5	7	33.5	68	6	2.94	5.5	5
1902	29.8	59	-7	3.52	10.2	8	31.5	64	8	3.64	5.2	8
1903	31.4	62	-6	4.02	6.7	9	33.6	60	8	3.73	4.2	10
1904	25.7	64	-20	2.59	15.3	10	28.6	63	-10	2.05	8.1	9
1905	28.6	69	-14	3.66	17.0	11	29.5	63	-6	4.14	19.3	10
1906	38.7	75	-6	2.85	2.3	10	40.2	76	5	3.08	2.0	11
1907	35.6	76	-19	3.18	6.2	12	37.5	77	3	2.36	3.6	12
1908	32.6	68	-21	3.24	7.1	8	34.3	63	5	3.37	4.1	8
1909	34.9	69	-3	2.74	6.1	10	38.3	71	10	2.84	4.1	10
1910	31.9	69	-12	4.38	12.9	12	33.5	65	6	4.07	3.0	10
1911	36.7	76	-5	3.96	4.3	12	38.6	68	11	4.14	2.6	11
1912	23.7	60	-40	2.59	15.5	10	26.5	59	-4	3.48	15.9	11
1913	41.5	74	8	3.17	1.6	13	44.3	71	22	3.23	T.	12
1914	35.9	76	-14	3.95	4.2	7	37.6	74	0	3.20	0.1	6
1915	32.7	66	-10	5.90	6.7	12	37.2	67	15	5.65	1.5	12
1916	37.9	74	-11	1.77	3.2	11	38.8	73	1	1.60	3.1	9
1917	33.3	66	0	3.07	4.4	11	34.0	64	9	3.02	1.5	9
1918	21.2	61	-30	4.24	24.0	10	22.9	58	-9	4.25	21.7	10
1919	36.0	66	-19	3.42	2.7	7	37.2	65	2	3.94	1.1	8
1920	27.8	64	-10	2.40	2.9	10	28.2	64	5	2.95	2.1	11
1921	35.5	70	-5	2.27	1.5	8	37.1	66	4	2.40	0.1	7
1922	30.1	63	-15	3.96	23.0	9	31.4	60	6	4.01	17.3	9
1923	34.7	68	0	4.12	6.5	12	35.9	67	13	4.64	2.2	10
1924	33.4	66	-10	4.07	1.8	7	35.6	67	1	3.93	T.	12
1925	30.9	63	-31	4.59	19.3	12	33.5	62	-1	3.36	7.9	12
1926	32.2	72	-11	3.12	4.6	10	34.2	65	5	2.94	1.1	10
1927	32.5	78	-5	1.60	2.1	11	33.7	73	2	1.87	4.6	10
1928	34.2	72	-11	2.48	9.4	7	35.2	71	-11	2.67	12.6	9
1929	32.6	69	-13	2.68	2.3	10	34.7	67	10	2.87	0.9	9
1930	32.8	75	-17	2.67	11.6	11	34.4	75	4	3.46	8.2	12
1931	34.4	66	-8	1.64	1.5	5	36.0	65	12	2.07	0.3	5
1932	44.4	80	13	4.98	1.1	12	46.4	77	22	5.56	1.2	11
1933	40.8	70	4	3.11	1.5	9	42.3	68	14	3.81	T.	8
1934	37.1	70	-6	2.52	0.5	9	38.4	66	3	2.26	T.	9
1935	31.2	71	-23	4.67	20.4	11	33.4	70	-7	5.49	16.8	11
1936	27.8	62	-20	5.87	9.7	13	30.8	61	-5	7.23	2.3	13
1937	41.6	77	11	7.43	1.1	17	44.3	72	23	8.27	T.	19
1938	33.5	67	-2	2.26	2.3	11	35.0	62	7	2.74	0.9	13
1939	35.0	69	-7	3.65	11.8	11	35.9	65	4	3.81	9.9	12
Period	33.6	80	-40	3.29	7.2	10	35.0	77	-11	3.38	4.9	10

Climatological Data for January 1939

Table with columns for 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. 0.01 in. or more, Clear, Partly cloudy, Cloudy), Prevailing direction of wind, and 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, 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. ¶¶Reservoir.

Daily Precipitation for January 1939

Table with columns: Stations, Drainage basin, Day of month (1-31), Total. Rows list various Maryland and Delaware stations 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 January 1939

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

Daily Temperatures for January 1939-Continued

Table with columns for Stations, 1-31, and Mean. Rows list various Maryland and Delaware 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 for 24-hour period ending late in afternoon, near sunset, except 9:30 p. m. at Princess Anne. (WBO, Richmond, Va., 4-25-39-1,650)