

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU
IN COOPERATION WITH MARYLAND STATE WEATHER SERVICE

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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GENERAL SUMMARY

The monthly mean temperature was normal. Monthly precipitation averaged two-thirds of normal and was the least in January since 1934. Snowfall was light. The weather was mild during the 1st-7th, the 21st-25th, and 30th-31st; was moderately cold during the 8-10th; and was cold during the 18-19th and 26-29th. The 11-12th, 16-19th, 21st-22d, and 24-25th were cloudy periods. Sunshine was abundant during the first decade, very deficient during the second decade, and about normal during the third decade. Monthly sunshine was about 10 per cent below normal. The third decade was windy. South winds of gale force at times during the night of 24-25th caused some minor damage locally.

Monthly precipitation was between 2 and 3 inches, except between 1 and 2 inches in Allegany, Washington, and Frederick Counties and between 3 and 4 inches in Somerset, Wicomico, and Worcester Counties.

Monthly snowfall was mostly 1 to 2 inches in the eastern and central divisions, except 2 to 4 inches in the eastern portion of north-central Maryland; and was 2 to 4 inches in western Maryland, except 4 to 14 inches in the Allegheny Mountain region.

Light snow fell on the 4th, 8th, 9th, 10th, 15th, 25th, 26th, 27th, 28th, and 31st in the Allegheny Mountain region; on the 11th in western and north-central Maryland; on the 12th, 13th, and 18th in western Maryland; during night 12-13th in north-central Maryland; and during afternoon-night of 19th in the central and eastern divisions.

Snow flurries occurred on the 11th and during night 12-13th in southern Maryland and on the Eastern Shore; on the 12th in central and eastern divisions; on the 15th on the Eastern Shore; on the 18th in north-central Maryland; on the 21st in the northeastern portion of the section; and on the 31st in the northern-border counties from Allegany to New Castle.

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TEMPERATURE

The monthly mean for the section, 33.6°, is 0.1° below normal. The highest monthly mean was 37.7° at Solomons; the lowest, 26.0°, at Mt. Savage Summit. The highest temperature, 67°, occurred at Cumberland on the 30th; the lowest, -2°, at Oakland on the 29th. The greatest local monthly range was 61° at Oakland; the least, 38°, at Crisfield, Delaware Breakwater, and Oxford. The greatest daily range was 44° at Oakland on the 29th.

PRECIPITATION

The monthly average for the section, 2.32 inches, is 0.98 inch below normal. The greatest monthly amount was 3.90 inches at Snow Hill; the least, 0.91 inch at Keedysville. The greatest 24-hour amount was 1.71 inches at Princess Anne on the 6-7th. The monthly average snowfall for the section, 2.1 inches, is 5.0 inches below normal. The greatest monthly snowfall was 13.4 inches at Friendsville. The average number of days with 0.01 inch or more of precipitation, 11, is 1 above normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Aurora, brilliant: Night 25.
Fogs, light: 1, 2, 4 to 8, 10 to 25, 31. *Fogs, dense:* 1, 2, 5, 7, 12, 20 to 23; also Allegheny Mountain region, 17, 18, 19, 24, 25. *Halos, lunar:* 10, 11, 13, 14, 15, 16, 29.
Halos, solar: 6, 9, 10, 16, 20, 29. *Robin first:* Clear Spring, 23. *Sundog:* 20. *Sleet, light:* 7, 10, 11, 12, 16, 21, 31.
Tide high: 24-25. *Thunderstorm, light hail, and rainbow:* Northern-border counties, early morning 25.
Winds, high: 6, 12, 13, 24, 25, 26, 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	7:30 a. m.	Local n'n	7:30 p. m.			
Aberdeen, Md.	30.50	31	29.24	25	9.1	34	s.	25	84	65	71	41	999
Annapolis, Md.	30.49	31	29.25	25	8.5	31	24	80	65	72	41	925
Baltimore, Md.	30.51	31	29.22	25	10.0	41	s.	24	82	58	61	48	895
Elkins, W. Va.	30.65	31	29.29	25	7.0	30	se.	24	82	69	73	38	1043
Harrisburg, Pa.	30.52	31	29.12	25	7.9	32	sw.	26	78	62	61	34	1057
Norfolk, Va.	30.53	29	29.43	25	9.5	44	s.	25	78	60	70	37	741
Philadelphia, Pa.	30.48	31	29.26	25	12.3	49	s.	25	74	67	67	38	974
Pittsburgh, Pa.	30.61	31	29.22	25	11.1	36	se.	24	82	71	74	31	1013
Washington, D. C.	30.54	31	29.22	25	6.9	26	sw.	30	74	59	61	37	905

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	6
1897.....	29.1	66	-12	1.94	2.1	4	31.7	64	4	2.00	0.6	6
1898.....	25.3	72	-2	3.60	5.8	11	35.7	66	15	3.25	0.8	11
1899.....	31.9	70	-24	3.30	9.7	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	8
1904.....	25.7	64	-20	2.59	15.3	10	28.6	63	-10	2.05	8.1	10
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	63	-21	3.24	7.1	8	34.3	63	5	3.37	6.1	8
1909.....	34.9	69	-3	2.74	6.1	10	38.1	71	10	2.84	4.1	9
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.....	29.7	60	-40	2.59	15.6	10	26.5	59	-4	3.48	15.9	11
1913.....	41.5	74	-5	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.....	33.7	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.	7
1925.....	30.9	63	-31	4.59	19.3	12	39.5	62	-1	5.36	7.9	12
1926.....	32.2	72	-11	3.12	4.6	10	34.2	65	2	3.04	1.1	10
1927.....	32.7	73	-5	1.60	2.1	11	33.7	73	2	1.57	4.6	10
1928.....	34.2	72	-11	2.48	9.4	7	35.2	71	-11	2.87	12.6	8
1929.....	32.6	69	-13	2.68	2.3	10	34.7	67	6	2.68	0.9	9
1930.....	33.8	75	-17	2.67	11.6	11	36.4	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
Period.....	33.6	80	-40	3.29	7.3	10	35.0	77	-11	3.38	5.0	9

Climatological Data for January 1938

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. Rows include Maryland (Aberdeen to Woodstock) and Delaware (Bridgetown to Wilmington).

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. 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 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 Sines, Oakland. *Custom House, Gay and Water Sts. **Weather Bureau Building, 24th and M Sts. †Also on other dates. ‡Northwest of Frostburg. §§Prettyboy Dam. §§§Municipal Building. §§§§Porter Reservoir.

(Continued from front page)

Winter grains were green and fair to good. Grasses and pastures were green and fair during the first half of the month, but mostly brown during the second half. Activities were plowing, cutting wood, spreading fertilizer, fencing, repairing roads, clearing land, husking corn, stripping tobacco, butchering, pruning fruit trees, and making tobacco beds. - J. B., jr.

Daily Precipitation for January 1938

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.
***Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.
**Precipitation is for 24-hour period, midnight to midnight.
|||||Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.
T. Trace, or less than 0.01 inch.
§Northwest of Frostburg. §§Prettyboy Dam. §§§Municipal Building. §§§§Porter Reservoir. *Precipitation included in following measurement.

Daily Temperatures for January 1938

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

Daily Temperatures for January 1938--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. (WBO, Richmond, Va., 4-11-38-1,000)