

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 December was cold. Cold weather prevailed during the 1st-4th, 9-10th, 12-15th, 19-20th, 22d-24th, and 27th-31st. Mild periods were 5-8th, 11th, 16-18th, 21st, and 25-26th. The 22d was the coldest day. Christmas Day was the mildest day, with light rain.

The ground was snow-covered throughout the month in the Allegheny Mountain region and from the 11th to the 31st in Allegany and Washington Counties.

The feature of the month was the unprecedented heavy snowfall of the 11-12th in the Allegheny Mountain region. Snowfalls of 9 to 15 inches within a 24-hour period and of 11 to 23 inches for the entire storm were the greatest of record for December. Strong winds on the 12-13th caused very high snow drifts. The heavy fall of snow also overspread Allegany and western Washington Counties, the falls decreasing from 11 to 12 inches at the foothills of the Allegheny Mountains to 6 inches at Hancock. The snowfall of the 11-12th over central and eastern Washington County was light to moderate in depth, 2.5 to 5 inches. Moderate to heavy rain on the 11th in the central and eastern divisions was followed by a light snow on the 12th.

One inch to 3 inches of sleet fell over the northern portion, 0.2 to 1 inch over the central portion, and a trace to 0.2 inch over the southern portion of the section on the 27th.

Monthly precipitation was above normal over the section, except below normal over northeastern Washington County, extreme southern Maryland, the upper Chesapeake Bay region, Harford County, most of Delaware, and over Dorchester, Wicomico, Somerset, and Worcester Counties. Totals in the eastern and central divisions ranged from slightly below 2 inches in northern Worcester County to between 4 and 5 inches in northern Baltimore, Carroll, and Frederick Counties; in western Maryland they ranged from 2.5 inches in northeastern Washington County to near 6 inches in western Garrett County.

Monthly snowfall in the eastern and central divisions increased from a trace over southern Worcester and Somerset Counties northward to 5 inches at Wilmington and northwestward to 9 to 9.5 inches in Baltimore, Carroll, and Frederick Counties near the Pennsylvania Line. Monthly snowfall in western Maryland increased from 8 inches in eastern Washington County westward to 16 to 22 inches at the foothills of the Allegheny Mountains and to 35 to 38 inches in western Garrett County; it was twice the normal, except 3 times the normal in the Allegheny Mountain region.

Light snow fell on the 1st, 2d, 8th, 13th, 14th, 16th, 21st, 26th, 28th, and 29th, and snow flurries occurred on the 9th over the Allegheny Mountain region.

Snow flurries occurred over the section eastward of the Allegheny Mountains on the 1st, 2d, 8th, and 21st, on the 13th except light snow fell over the upper Chesapeake Bay region and at Newark, Del., and on the 16th except light snow fell over central Frederick County; over eastern Washington County on the 9th, the Piedmont Plateau region on the 11th and 18th, and eastern Allegany and Washington Counties on the 28th.

Light snow fell over the Newark-Delaware City area on the 9th, western Maryland on the 18th, the northern portion of the section on the 19th, the eastern half of the section on the 22d, and the entire section, except snow flurries occurred in Somerset and southern Worcester Counties, during the night of the 29-30th.

The month was unfavorable for outdoor operations. Activities were cutting wood, husking corn, butchering, and caring of livestock.

Grains were snow-covered throughout the month in the Allegheny Mountain region and during the 11th-31st over the remainder of western Maryland. Grains were green and in good condition and pastures were fair, except browning during the third decade, in the central and eastern divisions.

TEMPERATURE

The monthly mean for the section, 32.1°, is 3.2° below normal. The highest monthly mean was 38.7° at Crisfield; the lowest, 22.1°, at Mt. Savage Summit. The highest temperature, 62°, occurred at Salisbury on the 26th; the lowest, 14°, below zero, at Oakland on the 22d. The greatest local monthly range was 69° at Oakland; the least, 32°, at Crisfield.

PRECIPITATION

The monthly average for the section, 3.44 inches, is 0.29 inch above normal. The

greatest monthly amount was 5.84 inches at Oakland; the least, 1.60 inches, at Ocean City. The greatest 24-hour precipitation was 2.80 inches at Edgemont on the 11-12th. The average monthly snowfall for the section, 7.1 inches, is 2.6 inches above normal. The greatest monthly snowfall was 38.0 inches at Friendsville; the least, a trace, over Somerset and southern Worcester Counties. The greatest 24-hour snowfall was 15 inches at Frostburg on the 11-12th.

MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs, light.—5-8, 11, 12, 17-21, 23-31. Fogs, dense.—5, 7, 8, 17, 18, 24, 25, 27, 29, 30, 31. Glaze (freezing rain) light.—27, 28, 30, 31. Halos, lunar.—6, 7, 25, 28, 29. Halos, solar.—6, 10, 29. Sleet, light.—11, 18, 29, 30, 31. Sleet, light to heavy.—27. Snow, unusually heavy.—Allegheny Mountain Region, 11-12. Winds, high.—1, 8, 11, 12, 13, 16, 26, 28.

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.			1:30 p. m.
Aberdeen, Md.	30.71	27	28.97	12	9.7	37	ne.	11	68	63	77	1050
Annapolis, Md.	30.67	27	29.08	12	10.4	40	nw.	27	76	85	88	958
Baltimore, Md.	30.72	27	29.03	12	8.2	34	nw.	28	73	61	70	936
Elkins, W. Va.	30.79	3	29.24	12	7.6	40	nw.	12	80	60	70	1147
Harrisburg, Pa.	30.76	27	28.87	12	10.6	34	nw.	28	73	61	70	1097
Norfolk, Va.	30.68	27	29.27	11	8.3	34	w.	12	80	60	70	42
Philadelphia, Pa.	30.74	27	28.99	12	10.5	29	nw.	1	75	58	72	973
Pittsburgh, Pa.	30.77	3	29.61	12	10.5	30	w.	27	88	75	81	1082
Washington, D. C.	30.72	27	29.06	12	9.1	28	w.	12	68	53	60	947

COMPARATIVE DATA FOR DECEMBER

Year	FOR MARYLAND						FOR DELAWARE					
	Temperature			Precipitation			Temperature			Precipitation		
	Mean	Highest	Lowest	Average	Average snowfall with .01 in. or more	No. of days with .01 in. or more	Mean	Highest	Lowest	Average	Average snowfall with .01 in. or more	No. of days with .01 in. or more
1895	37.0	70	-7	2.58	2.7	7	40.0	69	12	2.39	0.6	7
1896	34.1	70	-3	0.78	4.0	4	34.2	67	7	1.28	6.0	5
1897	36.8	74	-4	3.54	2.5	10	37.9	71	12	3.83	1.5	11
1898	34.0	70	-20	3.61	6.0	8	36.6	68	6	3.48	1.6	8
1899	35.2	69	-6	1.86	2.2	7	37.4	68	1	1.87	1.0	6
1900	34.4	68	-2	2.39	1.8	5	34.7	65	11	2.87	5.0	5
1901	32.5	74	-15	6.80	1.4	10	34.9	69	6	6.00	1	10
1902	35.1	70	-4	5.99	7.3	12	35.4	65	9	6.07	3.1	11
1903	30.1	69	9	2.25	5.0	7	31.4	56	9	4.15	4.5	8
1904	29.6	64	-11	3.34	15.4	7	30.0	66	-1	4.65	17.1	12
1905	36.4	64	2	4.31	4.2	8	38.3	64	15	4.07	2.2	8
1906	35.5	68	0	4.12	1.3	11	37.5	72	10	4.07	T.	10
1907	36.9	78	-7	4.14	4.8	9	41.1	67	16	4.54	1.7	8
1908	35.9	71	-1	3.18	7.7	9	37.5	71	6	4.32	8.2	10
1909	30.5	69	-5	3.64	10.3	7	32.1	62	3	3.86	15.3	6
1910	28.2	65	-15	2.38	11.9	7	30.4	64	-1	3.02	8.1	7
1911	39.8	78	7	3.66	1.1	10	41.5	76	17	3.65	0.1	8
1912	38.2	75	-10	3.88	7.2	9	40.5	74	15	4.36	6.8	9
1913	38.8	72	-1	2.44	1.0	6	40.4	67	18	2.88	T.	6
1914	31.6	68	-30	4.38	5.7	14	34.4	66	7	6.20	1.3	14
1915	32.8	73	-6	3.16	5.2	8	34.9	67	16	3.16	3.5	7
1916	33.4	76	-3	3.63	9.6	11	34.0	70	-3	4.49	9.7	10
1917	38.4	59	-32	1.62	9.4	8	28.5	56	-7	2.14	4.7	8
1918	40.3	71	7	4.31	0.3	10	41.2	70	13	3.75	0.1	9
1919	29.5	70	-17	2.91	6.0	11	31.9	70	0	3.19	5.9	11
1920	37.2	71	-5	3.42	1.7	8	39.6	69	16	3.52	0.2	7
1921	36.1	70	0	2.55	8.4	10	36.5	66	9	2.24	6.0	9
1922	36.2	71	3	3.79	3.1	10	37.1	66	13	4.18	1.8	10
1923	48.7	72	2	3.56	1.8	11	44.1	69	16	3.25	1.5	10
1924	35.0	76	-4	2.32	0.3	8	36.9	75	8	2.84	0.1	9
1925	35.2	64	-7	1.84	0.9	9	36.8	63	10	2.30	T.	7
1926	32.0	62	-16	3.17	2.2	12	32.8	60	5	3.49	1.8	12
1927	37.0	73	0	3.71	2.4	12	39.1	71	11	4.99	2.3	11
1928	36.8	63	-6	1.53	2.5	7	37.4	68	11	2.45	2.5	7
1929	36.8	75	-6	2.41	4.2	9	38.1	70	11	2.71	1.0	13
1930	32.2	69	-17	2.68	5.7	9	35.5	62	-1	1.98	3.2	10
1931	42.6	72	9	2.47	0.7	8	44.4	69	18	2.32	T.	7
1932	37.5	73	-6	3.23	12.1	13	39.4	70	4	3.88	13.0	15
1933	36.3	73	-10	2.92	5.9	10	37.4	71	-1	3.66	3.8	11
1934	35.0	71	-16	2.77	1.6	8	36.3	70	11	2.62	0.1	7
1935	29.9	66	-22	2.49	14.1	13	31.1	63	0	2.61	17.1	11
1936	37.4	70	-10	5.55	3.3	13	40.0	68	10	5.16	0.1	13
1937	34.5	74	-12	1.29	2.0	7	36.2	71	9	1.18	T.	7
1938	36.0	68	-1	2.84	2.8	10	38.3	65	12	2.70	0.8	8
1939	37.7	70	4	2.00	6.2	9	38.5	68	12	1.61	4.4	8
1940	40.2	70	-13	2.51	0.9	10	40.9	65	8	2.41	2.2	11
1941	39.5	71	-6	3.47	0.7	8	40.7	68	13	3.70	T.	7
1942	32.2	67	-25	3.86	7.1	13	32.9	63	-12	3.80	5.8	12
1943	34.3	69	-15	1.41	0.6	5	35.0	66	8	1.57	T.	4
1944	32.0	62	-14	3.46	7.6	10	33.2	60	8	3.28	3.4	10
Period	35.1	76	-32	3.12	4.7	9	36.6	76	-12	3.36	3.6	9

Climatological Data for December 1944

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.

All departures from normal are computed from the averages of the entire period for stations having 10 or more years of record, except that for First-Order Weather Bureau Stations they are based on adopted normals. The normal may be found by adding the departures when minus (-) or subtracting when plus (+). T. Trace or 0.005 inch or less rain or melted snow. *Recording gage. †Data interpolated. ‡Elevations are of ground above mean sea level. (§) 11-12; 27-28. ¶Post addresses of these stations are as follows: Of Bell, Glendale; 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 Picardy, Paw Paw, W. Va.; of Prettyboy Dam, Parkton; of Sines, Oakland; of Tonoloway, Hancock; of Trappe, Oxford; of Wiltondale, Towson. *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 Postoffice. ¶ 1.8 miles west. ¶ Private instruments. ¶ 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; at other stations temperatures are for a 24-hour period ending in late afternoon or near sunset, except 9 p. m. at Chestertown. † Data interpolated.

Daily Precipitation for December 1944

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, amounts are for 24-hours ending late in afternoon. 1Midnight to midnight; recording gage. 2Measured in the morning; for the preceding 24-hours. 3Data for 24-hours ending at 1:30 a.m. of following day. T Trace or 0.005 inch or less. *Included in next measurement. ITALICS Data interpolated. †First-order Weather Bureau station. ‡Water Pumping Station. ††University Farm. ‡‡Municipal Building. †††Porter Reservoir.

Daily Temperatures for December 1944

Table with columns for Stations (Delaware), Day of month (1-31), and Mean. Rows list Delaware locations (Bridgeville, Delaware City, Dover, Lewes, Millsboro, Newark, Wilmington, Washington, D.C.) with their maximum and minimum temperatures for each day of the month.

Daily Temperatures for December 1944-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.