

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

This December was slightly milder than normal, except slightly colder in the extreme northeast portion of the section. Alternate temperature periods were prolonged and in marked contrast. Cold spells were 9-15th and 26-30th. Lowest temperatures of the month, occurring during the severe cold of the 27-30th, were also the lowest for this year, except at a few stations. This severe cold spell caused heavy ice on ponds, and fairly heavy ice on streams and rivers and in Upper Chesapeake Bay.

Precipitation averaged but slightly below normal. Monthly totals were between 2 and 3 inches, except 1.5 to 2 inches in eastern Washington County, 3 to 4 inches in southern Maryland and in extreme western Allegany County, 3 to 4.4 inches over the central and northern portions of the Eastern Shore, and 4 to 4.8 inches in Garrett County.

Snowfall averaged one inch above normal. A light fall of snow occurred on the 9th over the Eastern Shore, and on the 11th over the entire section. On the 26th snowfall was moderate to heavy over the northern-border counties and light to moderate over the central counties to southward thereof. Monthly totals ranged from 1 inch at the extreme southern portion of the section to between 8 and 10 inches in the Piedmont Plateau and in western Maryland, except 10 to 15.5 inches in the Allegheny Mountain region.

Sunshine and relative humidity were slightly below normal. An unusually long period of cloudiness prevailed from 15th to 20th. The only prolonged period of clear sky and abundant sunshine was 23d-25th. Humidity was high during the second decade.

High northwest winds of 11th caused slight damage locally.

Winter grains made some growth. They were green and in good condition early in the month, but browned during the first cold spell. They greened again the first part of the third decade. During the severe cold at the close of the month they were protected by snow, except over the southern portion of the section where they turned brown. Pastures were fair. Activities were husking and cribbing corn, hauling and spreading fertilizer, cutting and hauling wood, stripping tobacco, plowing, butchering, hunting, gathering holly, making wreaths, and repairing machinery and buildings. Some ice was harvested during the third week in the northern counties. — J. B., jr.

TEMPERATURE

The monthly mean for the section, 36.5°, is 1.1° above normal. The highest monthly mean was 41.4° at Solomons; the lowest, 31.0°, at Sines. The highest temperature, 73°, occurred at Hancock (Tonoloway) on the 24th; the lowest, 10° below zero, at Oakland, on the 28th. The greatest local monthly range was 76° at Oakland; the least, 53°, at Crisfield. The greatest daily range was 45° at Cumberland on the 30th.

PRECIPITATION

The monthly average for the section, 3.00 inches, is 0.15 inch below normal. The greatest monthly amount was 4.80 inches at Oakland; the least, 1.58 inches, at Chewsville. The greatest 24-hour amount was 1.81 inches at Cambridge on the 19-20th. The average monthly snowfall for the section, 5.7 inches, is 1.1 above normal. The greatest monthly snowfall was 15.5 inches at Frostburg; the least, 1.0 inch over the extreme southern

portion of the section. The average number of days with 0.01 inch or more of precipitation, 10, is 1 above normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Aurora. — Princess Anne, 20.
Coronas, lunar. — Parkton, 2, 3, 6 to 8, 22-25, 28.
Fogs, light. — 3 to 9, 13 to 21, 23, 24, 31.
Fogs, dense. — 4, 5, 6, 8, 15, 16, 17, 20, 23, 24.
Glaze, light (rain freezing upon falling). — 13, 14, 15.
Halos, lunar. — 2, 22, 25, 26, 28, 29, 30.
Lightning. — Parkton (west of) and Woodstock (north of) 24.
Sleet, light. — Aberdeen, 9; southern portion of central division, 13; entire section, except Allegheny Mountain region, 26.
Wind, high. — North, 9; northwest, 11, 25, 26, 27; westerly, 21; southwest, 22.

PRESSURE, HUMIDITY, SUNSHINE AND WIND

Stations	Atmospheric pressure reduced to sea level				Wind				Mean relative humidity			Percentage of sunshine	
	Average	Highest	Date	Lowest	Date	Average hourly velocity	Maximum velocity	Direction	Date	8 a. m.	Local n'h		8 p. m.
Aberdeen, Md.	30.15	30.92	29	29.62	11	6.7	38	nw.	11	79	64	75	40
Baltimore, Md.	30.15	30.91	29	29.63	11	9.6	37	nw.	11	72	61	65	49
Elkins, W. Va.	30.18	30.86	29	29.70	11	6.8	32	w	20	83	64	73	38
Harrisburg, Pa.	30.14	30.92	29	29.59	21	7.5	30	nw.	11	74	59	65	38
Norfolk, Va.	30.17	30.85	29	29.68	6	12.6	38	w.	11	80	65	67	48
Philadelphia, Pa.	30.15	30.96	29	29.60	11	12.3	41	nw.	11	68	60	61	45
Pittsburgh, Pa.	30.15	30.94	29	29.58	11	10.8	38	nw.	11	80	70	69	30
Washington, D. C.	30.15	30.94	29	29.61	11	6.9	32	nw.	11	71	58	61	41

COMPARATIVE DATA FOR MARYLAND AND DELAWARE FOR DECEMBER

Year	Temperature				Precipitation				Number of days				
	Mean	Departure	Highest	Lowest	Average	Departure	Greatest	Least	Average snowfall	With 0.1 in. or more precipita'n	Clear	Partly c'l'y	Cloudy
1895....	37.6	+2.2	70	-7	2.49	-0.66	3.75	1.50	2.4	8	11	9	11
1896....	34.0	-1.4	70	-2	0.84	-2.31	2.71	0.11	4.3	4	15	9	7
1897....	36.9	+1.5	74	-4	3.57	+0.42	6.38	1.96	2.5	10	11	10	10
1898....	34.2	-1.2	70	-20	3.60	+0.45	6.26	1.85	4.5	8	15	6	10
1899....	35.4	0.0	69	-6	1.86	-1.29	4.63	0.80	2.1	7	17	8	6
1900....	34.4	-1.0	68	-2	2.43	-0.72	4.10	1.51	2.2	5	15	8	8
1901....	32.7	-2.7	74	-15	6.74	+3.59	11.18	4.15	1.4	10	13	7	12
1902....	33.3	-2.1	70	-4	6.00	+2.85	8.63	3.07	6.8	12	11	8	11
1903....	30.2	-5.2	60	-9	2.46	-0.69	4.52	1.32	5.1	7	15	8	8
1904....	29.6	-5.8	66	-11	3.50	+0.35	6.19	1.63	15.6	9	11	7	13
1905....	36.6	+1.2	64	2	4.36	+1.21	6.21	2.41	4.0	8	14	8	9
1906....	35.7	+0.3	72	0	4.11	+0.96	7.16	1.84	1.1	10	8	9	14
1907....	37.4	+2.0	76	-7	4.19	+1.04	5.86	2.04	4.4	9	14	8	9
1908....	36.1	+0.7	71	1	3.32	+0.17	5.49	1.25	7.8	9	12	8	11
1909....	30.7	-4.7	69	-5	3.64	+0.49	5.63	1.72	10.9	7	15	9	7
1910....	28.5	-6.9	65	-15	2.42	-0.73	4.13	0.90	11.5	7	12	9	10
1911....	40.0	+4.6	76	-7	3.66	+0.51	6.12	1.76	1.0	10	9	9	13
1912....	38.5	+3.1	75	-10	3.94	+0.79	5.25	1.81	7.2	9	13	9	9
1913....	39.0	+3.6	72	-1	2.43	-0.72	3.36	1.43	0.9	6	13	8	10
1914....	31.9	-3.5	68	-21	4.63	+1.48	8.16	1.82	5.1	14	8	6	17
1915....	33.1	-2.3	73	-6	3.16	+0.01	4.86	1.70	5.0	7	11	9	9
1916....	33.5	-1.9	76	-3	3.74	+0.59	5.51	1.85	9.6	11	14	9	8
1917....	26.7	-8.7	59	-32	1.09	-1.46	3.32	0.57	8.9	8	12	7	12
1918....	40.4	+5.0	71	7	4.23	+1.08	5.43	2.51	0.3	10	10	8	13
1919....	30.6	-4.8	70	-17	2.96	-0.19	4.34	1.47	6.0	11	12	8	11
1920....	37.5	+2.1	71	-5	3.43	+0.28	4.62	1.95	1.5	8	9	9	13
1921....	36.2	+0.8	70	0	2.51	-0.64	5.30	1.65	8.3	10	11	8	12
1922....	36.3	+0.9	71	3	3.84	+0.69	7.72	2.32	2.9	10	9	8	14
1923....	43.7	+8.3	72	2	3.55	+0.30	6.17	1.47	1.8	11	13	7	11
1924....	35.2	-0.2	76	-4	2.36	-0.79	3.36	1.07	0.3	8	9	10	12
1925....	35.4	0.0	64	-7	1.90	-1.25	4.22	1.90	0.8	9	12	7	12
1926....	32.1	-3.3	62	-16	3.19	+0.04	5.73	2.16	2.2	12	9	6	16
1927....	37.3	+1.9	73	0	3.78	+0.63	8.20	1.62	2.4	12	12	5	14
1928....	36.9	+1.5	63	0	1.63	-1.52	2.94	0.83	3.0	7	15	6	10
1929....	36.9	+1.5	75	-6	2.45	-0.70	3.84	1.21	3.8	9	11	6	14
1930....	33.4	-2.0	62	-17	2.60	-0.55	4.35	1.59	5.4	9	8	9	14
1931....	42.8	+7.4	72	-9	2.45	-0.70	5.04	1.76	0.6	8	10	9	12
1932....	37.7	+2.3	73	-6	3.30	+0.15	5.12	1.30	12.2	13	9	9	13
1933....	36.5	+1.1	73	-10	3.00	-0.15	4.80	1.58	5.7	10	10	8	13
Period.	35.4	76	-32	3.15	11.18	0.11	4.6	9	12	8	11

Climatological Data, December, 1933

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 temperature and precipitation are computed only for such stations as have 10 or more years of record, but all complete reports are used in determining section or division means. Data in italics determined from surrounding stations. T. 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 Pleasant Hill, Owings Mills. Also on other dates. *Custom House, Gay and Water Sts. **Weather Bureau Building, 24th and M Sts. §Prettyboy Dam. §§Municipal Building. §§§Porter Reservoir.

Daily Temperatures for December, 1933

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, Baltimore, Sines, and Washington are from midnight to midnight; other stations, except Cumberland, are for 24-hour period ending late in afternoon, near sunset. (W. B., Richmond, Va., 2-5-34-330)