

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

CHARLES F. MARVIN, Chief

In Cooperation with Maryland State Weather Service

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION
JOHN R. WEEKS, Meteorologist and Section Director

PRICE: 5 CENTS A COPY; 50 CENTS A YEAR

VOL. XXXVIII BALTIMORE, MD., MARCH, 1933 No. 3

GENERAL SUMMARY

March was moderately cold, considerably cloudy, and windy. Precipitation averaged fairly well above normal. Snowfall averaged two-thirds of normal. Monthly sunshine was about 10 per cent below normal. The 18-25th was a wet period. High northwest winds were unusually frequent. March 4 was cloudy and mild, but without rain.

The weather was mild 1st-9th, 12-13th, 15th, 17-18th, 30th-31st; warm 14th; cold 10-11th, 23d-26th; cool 16th, 19-20th, 27-29th; and seasonable 21st-22d. The coldest day was 11th, with lowest temperatures close to zero in the Allegheny Mountain region.

Precipitation was greatly in excess of normal in western Maryland, well above normal in north-central Maryland and on northern Eastern Shore, about normal in southern Maryland, below normal on central Eastern Shore, and light on southern Eastern Shore. Totals ranged from twice the normal, 7 to 8 inches, in the Allegheny Mountain region to less than one-half the normal, 1.5 to 2 inches, on southern Eastern Shore.

Monthly snowfall totaled 14 to 18 inches in the Allegheny Mountain region, where light snow fell on 1st, 2d, 3d, 4th, 8th, 9th, 10th, 11th, 15th, 21st, 22d, and 23d, and heavy snow, 5 to 7.5 inches, on 25-26th. A light snowfall occurred over the section to eastward of Allegheny Mountains on 25th, with falls 1 to 2 inches in southern and central portions, except a trace over southeastern portion of the Eastern Shore, and with falls 2 to 4 inches in northern portion, except 4 to 6 inches in northern Blue Ridge Mountain region.

During the third decade winter grains improved to good and were nicely green, except poor locally in Charles County; pastures and grasses improved to good; peach trees were blooming on southern Eastern Shore; peach trees were in bud and plum trees were blooming in southern Maryland. Activities included plowing, pruning, spraying, stripping tobacco, and sowing clover, tobacco, and tomato seed. Some early potatoes, peas, and other vegetables were planted on the Eastern Shore and in southern Maryland. The flow of maple sap was good.—J. B., jr.

TEMPERATURE

The monthly mean for the section, 40.3°, is 2.7° below normal. The highest monthly mean was 44.6° at Solomons; the lowest 31.6°, at Grantsville. The highest temperature, 80°, occurred at Millsboro on the 14th; the lowest, 0°, at Sines on the 11th. The greatest local monthly range was 70° at Hancock; the least, 43°, at Cecilton. The greatest daily range was 48° at Oakland and Sines on the 6th.

PRECIPITATION

The monthly average for the section, 4.28 inches, is 0.84 inch above normal. The greatest monthly amount was 7.83 inches at Grantsville; the least, 1.48 inches at Salisbury. The greatest 24-hour amount was 2.63 inches at Friendsville on the 13th. The monthly average snowfall for the section, 3.0 inches, is 1.5 inches above normal. The greatest monthly snowfall was 18.1 inches at Oakland; the least, a trace, over the southeastern portion of the Eastern Shore. The average number of days with 0.01 inch or more of precipitation, 13, is 3 above normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs, light.—7, 12, 13, 14, 15, 17, 18, 19, 20, 21, 23, 26, 28, 31.
Fogs, dense.—7, 13, 14, 15, 19, 20, 21, 31.
Frogs, first croaking.—Allegheny Mountain region, 31.
Halos, lunar.—6, 8. solar.—6, 13, 16, 27, 30.
Hail, light.—Baltimore, 15. Rainbows.—Clear Spring, 15.
Sleet, light.—2, 9, 20, 23, 25. Sun-dog.—Grantsville, 27.
Thunderstorms.—7, 13, 14, 15, 21.
Winds, high.—Northwest, 1, 2, 3, 8, 9, 10, 15, 21, 22, 24, 26, 28, 29; southeast, 7. Also on coast: Northeast, 19, 20, 21.

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	s. a. m.		Local n n	
Aberdeen, Md.	30.00	30.51	16	29.17	8	9.5	98	w.	9	76	66	69	32
Baltimore Md.	29.99	30.49	16	29.19	8	12.6	40	s.w.	9	66	52	59	58
Elkins, W. Va.	30.06	30.56	5	29.33	8	8.4	34	w.	8	83	66	70	36
Harrisburg, Pa.	29.98	30.47	16	29.17	8	9.8	37	n.w.	8	67	54	60	44
Norfolk, Va.	30.02	30.51	16	29.32	8	14.8	42	w.	8	72	54	60	64
Philadelphia, Pa.	29.98	30.51	16	29.16	8	15.3	39	w.	8	66	54	58	41
Pittsburgh, Pa.	30.02	30.53	5	29.27	8	11.6	41	w.	8	77	69	66	35
Washington, D. C.	30.00	30.50	16	29.20	8	9.1	32	n.w.	8	66	50	55	45

†Velocity of wind in miles per hour by 4-cup anemometer.

COMPARATIVE DATA FOR MARYLAND AND DELAWARE FOR MARCH

Year	Temperature				Precipitation				Number of days				
	Mean	Departure	Highest	Lowest	Average	Departure	Greatest	Least	Average snowfall	With .01 in or more precipita'n	Clear	Partly c'ly	Cloudy
1895....	39.9	-3.1	74	-7	3.10	-0.34	6.20	1.10	2.8	10	12	9	10
1896....	36.6	-6.4	74	-13	4.38	+0.94	6.80	2.13	12.4	10	14	8	9
1897....	44.4	+1.4	82	12	2.93	-0.53	5.05	2.07	0.7	10	12	10	9
1898....	44.4	+4.6	84	7	3.66	+0.22	5.34	1.17	1.9	11	11	7	12
1899....	41.0	-2.0	77	1	4.83	+1.39	7.42	2.44	3.7	11	11	7	13
1900....	37.4	-5.6	74	1	3.27	-0.17	5.05	1.31	13.0	9	12	8	11
1901....	42.6	-0.4	88	1	3.51	+0.07	6.99	1.13	1.8	9	10	10	11
1902....	44.8	+1.8	80	3	3.91	+0.47	5.92	1.82	10.1	10	13	10	8
1903....	49.3	+6.3	85	15	5.22	+1.78	9.36	3.00	0.2	10	11	7	13
1904....	41.2	-1.8	87	5	3.04	-0.40	4.24	1.13	1.9	10	11	10	10
1905....	45.3	+2.3	88	-15	3.16	-0.28	6.86	0.99	2.0	10	13	8	10
1906....	36.9	-6.1	68	8	4.97	+1.53	7.18	2.22	10.4	7	9	8	14
1907....	46.1	+3.1	93	2	3.26	-0.18	7.50	1.88	6.3	9	14	9	8
1908....	45.9	+2.9	85	11	3.00	-0.44	7.34	1.36	0.6	10	12	9	10
1909....	40.4	-2.6	80	9	3.70	+0.26	5.82	1.75	7.0	11	13	9	9
1910....	50.1	+7.1	89	14	1.25	-2.19	4.02	0.08	2.2	5	17	9	5
1911....	39.9	-3.1	77	-5	2.61	-0.83	4.42	1.28	9.0	12	13	11	7
1912....	39.7	-3.3	78	-7	6.75	+3.31	9.08	4.89	6.7	13	12	9	10
1913....	47.4	+4.4	83	-6	4.47	+1.03	8.75	2.19	0.6	10	11	11	9
1914....	37.9	-5.1	80	-14	2.49	-0.95	4.55	1.15	15.8	10	12	9	10
1915....	36.9	-6.1	64	-3	1.16	-2.23	2.16	0.43	4.1	4	18	8	5
1916....	35.9	-7.1	73	-3	3.82	-0.38	6.84	1.87	4.6	9	12	8	11
1917....	41.2	-1.8	82	-3	5.46	+2.02	8.55	2.87	9.0	13	14	7	10
1918....	45.5	+2.5	84	8	3.59	+0.15	7.06	1.57	0.1	9	17	7	7
1919....	45.8	+2.8	73	14	3.99	+0.55	5.35	1.79	0.5	10	17	7	7
1920....	43.3	+0.3	85	-1	3.14	-0.30	4.61	1.91	2.6	9	18	5	8
1921....	53.7	+10.7	91	14	2.39	-1.05	3.71	1.46	0.1	11	16	10	5
1922....	44.3	+1.3	80	-11	4.67	+1.23	9.22	3.38	1.9	13	11	6	14
1923....	43.4	+0.4	82	-6	4.39	+0.95	7.28	1.69	5.7	11	16	7	8
1924....	40.8	-2.2	77	11	5.02	+1.58	6.66	3.13	10.9	10	14	8	9
1925....	45.0	+2.0	82	-3	2.25	-1.19	3.96	1.13	0.3	9	15	6	10
1926....	38.1	-4.9	80	-8	2.22	-1.22	4.51	1.11	1.9	10	13	11	7
1927....	45.4	+2.4	84	10	1.75	-1.69	3.19	1.21	0.1	9	10	10	11
1928....	41.8	-1.2	83	7	2.95	-0.49	4.99	1.82	6.3	10	13	10	8
1929....	48.2	+5.2	86	4	3.17	-0.27	5.40	1.90	1.2	10	14	6	11
1930....	42.4	-0.6	77	4	2.14	-1.30	4.45	0.65	1.5	7	16	8	7
1931....	39.3	-3.7	65	14	4.38	+0.94	5.97	3.22	7.4	13	7	10	14
1932....	38.5	-4.5	75	-4	5.78	+2.34	7.76	3.61	5.3	10	13	9	9
1933....	40.3	-2.7	80	0	4.28	+0.84	7.83	1.48	3.0	13	9	9	13
Period.	43.0	93	-15	3.44	9.36	0.08	4.5	10	13	9	9

Climatological Data, March, 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. Drum Point Light Station. Municipal Building. Porter Reservoir.

Daily Temperatures for March, 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. Bar is set.