

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

In Cooperation with Maryland State Weather Service

# CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION  
**J. B. WEEKS**  
 PRICE: 5 CENTS A COPY; 50 CENTS A YEAR  
 VOL. XXXIX BALTIMORE, MD., MARCH, 1934 No. 3

**GENERAL SUMMARY**

This was the fourth consecutive cold March, with abundant precipitation. Cloudiness, much in excess of normal, caused a deficiency of about 10 per cent in the monthly sunshine. Relative humidity averaged slightly above normal. Prolonged periods of cloudiness were 2d-4th, 7-8th, 22d-24th, and 26-28th; of clear sky and sunshine, 12-13th, 15-17th, and 29-30th. Monthly snowfall averaged greatest in March since 1914. This was not a windy March.

The severe, cold weather, which had its inception on January 29, terminated on March 2. A pronounced thaw followed, from 3d to 6th. Another warm period was 16-18th. Cold periods were 8-12th, 19th, and 22d-26th. The lowest daytime temperatures occurred on the 11th in the Allegheny Mountain region and on the 23d over the remainder of the section.

Monthly precipitation, rain and melted snow, was unevenly distributed, but averaged 30 per cent more than normal. Monthly snowfall averaged two and one-half times the normal.

Light snow fell in the Allegheny Mountain region on 6th, 7th, 14th, and 28th, and in the central and eastern divisions on 19-20th. On 8th moderate to heavy snow fell over the northern portion of the section, and light snow and moderate to heavy rain over the southern portion. On 10-11th light snow fell over the western portion of the section, and moderate to heavy snow over the eastern portion. Snowfall was moderate over the section on 23d. On 24th light snow fell in western Maryland, and light snow and light rain in central and eastern divisions.

The thaw and rains early in the month produced high water in ice-filled streams and rivers; some damage resulted by flooding in north-central Maryland.

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**TEMPERATURE**

The monthly mean for the section, 38.9°, is 4.1° below normal. The highest monthly mean was 42.9° at Salisbury; the lowest, 31.6°, at Sines. The highest temperature, 78°, occurred at Hancock (Tonoloway) on the 17th and at Baltimore, Bell, Great Falls, Lutherville, Tokoma, and Washington on the 18th; the lowest, 10° below zero, at Oakland on the 12th. The greatest local monthly range was 83° at Hancock (Tonoloway); the least, 46°, at Crisfield. The greatest daily range was 56° at Hancock (Tonoloway) on the 17th.

**PRECIPITATION**

The monthly average for the section, 4.45 inches, is 1.01 inches above normal. The greatest monthly amount was 7.17 inches at Princess Anne; the least, 2.06 inches, at Hancock (City). The greatest 24-hour amount was 1.89 inches at Princess Anne on the 31st. The monthly average snowfall for the section, 11.9 inches, is 7.2 inches above normal. The greatest monthly snowfall was 18.0 inches at Clear Spring, Dover and Millington; the least, 7.5 inches at Crisfield. The average number of days with 0.01 inch or more of precipitation, 14, is 4 above normal.

**MISCELLANEOUS PHENOMENA (WITH DATES)**

*Fogs, light.*—1 to 5, 7, 8, 10, 11, 17, 19, 23, 24, 26, 27, 28, 30, 31.

*Fogs, dense.*—2, 3, 4, 5, 24, 26, 27, 31.

*Glaze, light (rain freezing upon falling).*—Central and eastern divisions, 24; Allegheny Mountain region, 26.  
*Halos, lunar.*—1, 6, 19, 24, 25, 26, 28, 30.  
*Halos, solar.*—1, 9, 15, 19, 21, 25.  
*Rainbow, unusually brilliant.*—Clear Spring, 5.  
*Sleet, light.*—7, 8, 18, 19, 20, 22, 23, 24, 26, 28.  
*Thunderstorms.*—Allegheny Mountain region, 5; Boyds and Cheltenham, 18; central and eastern divisions, 27.  
*Winds, high.*—Northwest, 5, 6, 14, 18, 28; southwest, 17; northeast, 20. Also on coast.—Northeast, 10, 31; southerly, 13, 27.

**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'n	8 p. m.
Aberdeen, Md. ....	30.17	30.78	1	29.56	.5	7.6	32	w	6	62	70	76	..
Annapolis, Md. ....	30.78	30.78	1	29.61	.5	7.9	33	nw.	18	74	60	54*	..
Baltimore, Md. ....	30.17	30.77	1	29.59	4	10.4	38	w.	6	72	58	67	50
Elkins, W. Va. ....	30.20	30.69	1	29.64	4	6.7	32	w.	5	84	67	74	44
Harrisburg, Pa. ....	30.17	30.73	1	29.57	4	7.9	34	sw.	6	67	56	65	53
Norfolk, Va. ....	30.18	30.74	1	29.51	20	14.2	40	nw.	6	79	64	71	52
Philadelphia, Pa. ....	30.19	30.76	1	29.58	4	13.9	40	sw.	6	68	58	66	50
Pittsburgh, Pa. ....	30.16	30.61	1	29.60	4	11.0	41	w.	74	68	64	64	45
Washington, D. C. ....	30.18	30.75	1	29.60	4	7.7	31	nw.	6	70	53	60	45

\* 4 p. m.

**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 precipitation	Clear	Partly cly	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	2.18	12.4	10	14	8	9
1897....	44.4	+1.4	82	12	2.93	-0.51	5.05	2.04	0.7	10	12	10	9
1898....	47.6	+4.6	84	7	3.66	+0.22	8.34	1.17	1.9	11	10	9	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	-8	3.27	-0.17	5.05	1.31	13.0	9	12	8	11
1901....	42.6	-0.4	88	-9	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	13
1903....	49.3	+6.3	85	15	5.22	+1.78	9.36	3.00	0.2	10	11	7	8
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	-2.28	2.16	0.45	4.1	4	18	8	5
1916....	35.9	-7.1	73	-3	3.82	+0.38	6.84	1.87	4.6	10	12	8	11
1917....	41.2	-1.8	82	-5	5.46	+2.02	8.85	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	78	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....	63.7	+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	8
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	7.84	1.48	3.0	13	9	9	13
1934....	38.9	-4.1	78	-10	4.45	+1.01	7.17	2.06	11.9	14	10	7	14
Period.	43.0	.....	93	-15	3.44	.....	9.36	0.08	4.7	10	13	9	9



Daily Precipitation for March, 1934

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, 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.
§§§Prettyboy Dam §§§Municipal Building. §§§Porter Reservoir. \*Precipitation included in following measurement.

ERRATA:

January 1934.—Page 2: Annapolis, greatest daily range, printed 36, should be 31. Maryland Line, mean temperature and departure from normal, printed 34.5 and +0.9 should be 34.8 and +1.2.
Page 4: Maryland Line, minimum temperature on 2d and 4th, printed 20 and 16, should be 25 and 26, respectively; mean minimum temperature, printed 25.4, should be 25.9.
Page 4: On 3d—Princess Anne, maximum should be 41; Ridgely, maximum should be 34 and minimum should be 27; Rock Hall, maximum should be 38 and minimum should be 23.
Page 4: In the last three columns the minus signs in front of the maximum temperatures at Friendsville, Frostburg, Grantsville, and Oakland should be in front of the minimum temperatures, and the minus signs in front of the maximum temperatures at Snow Hill and Westminster should be in front of the minimum temperatures at Sines and Western Port, respectively.
February 1934.—Page 7: Precipitation on 2d at State Sanatorium, printed .45, should be .15, and at Stevensville, printed .35, should be .45.

(Continued from front page)

Ice in streams and rivers and on Chesapeake Bay disappeared during the second decade.

Grains and grasses greened somewhat during the warm period of the second decade, except the winter-killed, and continued greening thereafter. In eastern and central divisions the ground

was too wet for plowing and other field operations. Some peas and early potatoes were planted and some oats were sown, however, over the southern Eastern Shore during the second decade. Tobacco seed was sown in beds. Some tobacco was stripped. Flow of maple sap was good.—J. B., jr.

Daily Temperatures for March, 1934

Table with columns for Stations, 31 days, and Mean. Rows list stations like Aberdeen, Annapolis, Baltimore, etc., with their respective temperature readings for each day.

§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., 5-3-34-930)