

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 February was windy. It was the first mild February since 1933 and the second successive February with average precipitation above normal. Monthly snowfall averaged two and one-eighth times the combined snowfall of the two preceding winter months. Monthly sunshine was about 5 per cent below normal. The feature of the month was a mild tornado at night of the 21st-22d.

Temperatures were mild, except cold during the 2d-6th, 10-11th, 17-18th, and 24-28th.

Monthly precipitation was mostly above normal in the western and central divisions and mostly below normal on the Eastern Shore. Totals were 3 to 4 inches, except between 2 and 3 inches in Allegany, Calvert, and St. Marys Counties and over most of the Eastern Shore, and 4 to 5 inches in northwestern Frederick, northeastern Carroll, and northern Baltimore Counties.

Monthly snowfall totaled 4.5 to 10.5 inches over the section, except 3 to 4.5 inches in northern Caroline County and in central and northern Delaware, and 10 to 27.5 inches in the Allegheny Mountain region.

Light snow fell in the Allegheny Mountain region on the 2d, 9th, 10th, 11th, 14th, 23d, 26th, and 27th; over the western half of the section on the 18th and at night 21st-22d; over the southern half of the section on the 24th and 28th; and over the entire section on the 4-5th, at night 14-15th, and on the 25th. Snowfall was light to heavy over the section on the 16th. Snow flurries occurred in the Allegheny Mountain region on the 1st, 3d, and 21st; in Allegany and Washington Counties on the 10th, 11th, and 14th; in Frederick and Carroll Counties on the 14th; over the eastern half of north-central Maryland and the northern half of southern Maryland during night 21st-22d; and in the northern counties from Allegany to Cecil on the 26th.

Grains made some growth, were nicely green, and were good to excellent. Pastures were fair. Field operations were at a standstill. Tree fruit buds were swelling. Stripping tobacco and cutting wood were in progress.—J. B., jr.

Mild Tornado.—Stormy weather prevailed on Sunday, the (Continued on page 6)

TEMPERATURE

The monthly mean for the section, 34.9°, is 1.0° above normal. The highest monthly mean was 38.8° at Solomons; the lowest, 26.2°, at Mt. Savage Summit. The highest temperature, 72°, occurred at Friendsville on the 8th and at Salisbury on the 9th; the lowest, zero, at Grantsville on the 28th. The greatest local monthly range was 69° at Grantsville; the least, 38°, at Dundalk. The greatest daily range was 45° at Hancock on the 13th.

PRECIPITATION

The monthly average for the section, 3.20 inches, is 0.25 inch above normal. The greatest monthly amount was 5.06 inches at State Sanatorium; the least, 1.99 inches, at Princess Anne. The greatest 24-hour amount was 2.90 inches at State Sanator-

ium on the 21st-22d. The monthly average snowfall for the section, 8.5 inches, is 1.1 inches above normal. The greatest monthly snowfall was 27.5 inches at Sines. The average number of days with 0.01 inch or more of precipitation, 12, is 3 above normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Aurora.—Night 2-3. Fogs, light.—1, 4-10, 13-16, 18-21, 23-25. Fogs, dense.—1, 6, 7, 8, 9, 14, 19, 21. Frogs croaking.—College Park, 22; Princess Anne, 21. Halo, lunar.—17. Halos, solar.—1, 4, 5, 6, 7, 13, 17, 23, 28. Sleet, light.—4, 7, night 9-10, 14, 16, night 21-22. Sundogs.—Chestertown, 28; Chewsville, 1, 17; Princess Anne and Solomons, 23. Thunderstorms.—Garrett County, 8; District of Columbia, 15; western half of section, night 21. Tide, high.—Chesapeake Bay, 21. Tornado, mild.—See General Summary. Winds, high.—Southerly, 21; southwest, 14, 15; northwest, 1, 2, 3, 5, 10, 11, 14, 15, 17, 21-22, 25, 26. On coast: Northeast, 16.

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	S. a. m.	Local n'n			S. p. m.	
														Aberdeen, Md. ....
Annapolis, Md. ....	30.44	3	29.39	16	10.0	..	..	..	74	64	66	41	..	816
Baltimore, Md. ....	30.45	3	29.39	21	11.8	38	s.	21	66	55	58	53	..	792
Edgewood, Md. ....	30.42	3	29.40	16	..	33	nw.	21	..	..	..	..	..	870
Blk. ns. W. Va. ....	30.60	3	29.35	21	7.5	34	w.	14	81	72	73	39	..	926
Harrisburg, Pa. ....	30.51	3	29.41	14	8.6	26	se.	21	71	57	58	46	..	896
Norfolk, Va. ....	30.52	12	29.30	16	11.3	39	se.	21	76	59	67	45	..	646
Philadelphia, Pa. ....	30.42	3	29.41	22	13.7	45	se.	22	70	61	57	51	..	814
Pittsburgh, Pa. ....	30.57	3	29.34	21	13.0	44	nw.	14	81	64	70	49	..	880
Washington, D. C. ....	30.48	3	29.41	16	8.5	27	nw.	21	70	54	56	52	..	797

COMPARATIVE DATA FOR FEBRUARY

Year	FOR MARYLAND						FOR DELAWARE					
	Temperature			Precipitation			Temperature			Precipitation		
	Mean	Highest	Lowest	Average	Average snowfall	No. of days with 0.1 in. or more	Mean	Highest	Lowest	Average	Average snowfall	No. of days with 0.1 in. or more
1895.....	24.5	67	-18	1.26	11.1	5	24.7	62	-4	1.61	11.3	6
1896.....	34.5	66	-12	5.34	2.7	9	35.8	66	0	6.31	1.0	10
1897.....	34.6	68	0	5.47	7.9	10	36.0	59	10	5.12	2.7	10
1898.....	33.4	70	-6	1.58	2.1	5	36.0	65	0	2.00	..	5
1899.....	26.1	75	-26	5.30	28.8	12	27.7	65	-14	6.15	30.3	13
1900.....	31.7	72	-15	4.74	8.3	9	33.1	69	3	4.24	10.0	11
1901.....	27.3	69	-6	0.70	3.2	4	28.2	52	1	1.00	1.0	3
1902.....	27.3	68	-17	4.51	6.0	8	28.9	62	6	4.82	12.8	8
1903.....	35.6	73	-12	4.87	5.9	10	32.2	69	-1	5.57	2.5	10
1904.....	27.0	70	-15	1.73	3.7	7	28.3	65	5	1.25	5.0	6
1905.....	25.3	63	-20	2.65	10.1	9	26.4	53	-1	4.07	5.6	10
1906.....	33.1	68	-15	2.42	5.7	7	34.6	68	5	3.71	4.4	8
1907.....	27.9	59	-29	2.38	16.0	7	29.1	57	-5	2.38	10.6	8
1908.....	29.3	68	-15	4.16	14.7	10	32.1	65	3	4.30	4.1	8
1909.....	41.6	75	-4	3.55	4.8	11	43.3	76	7	3.50	2.4	11
1910.....	32.9	74	-6	2.41	5.2	9	35.1	73	3	1.46	3.2	7
1911.....	35.3	74	8	1.92	7.1	9	38.4	68	17	2.03	5.6	7
1912.....	29.3	65	-18	2.49	1.8	7	31.4	68	5	2.81	0.5	7
1913.....	34.1	72	0	1.46	2.3	7	36.0	73	12	1.74	0.9	7
1914.....	28.3	68	-28	2.81	14.9	9	31.4	64	1	2.62	10.0	8
1915.....	37.1	72	-15	4.38	2.4	8	39.7	72	15	4.22	1.7	8
1916.....	31.9	69	-11	3.27	7.9	9	32.9	67	2	3.52	5.0	9
1917.....	31.6	76	-18	2.18	7.1	8	31.7	69	-1	2.29	2.7	8
1918.....	33.6	70	-15	1.56	2.4	6	33.4	71	-10	1.17	1.4	6
1919.....	35.5	70	-3	2.36	3.2	10	36.2	69	14	2.89	0.4	9
1920.....	31.4	62	-5	3.97	12.5	12	31.8	58	1	5.44	7.3	10
1921.....	37.7	77	-15	2.86	9.8	10	38.2	71	10	3.33	7.0	10
1922.....	37.2	79	-11	3.14	7.0	12	37.8	73	1	3.38	8.9	11
1923.....	30.7	70	-9	2.79	6.9	11	30.9	61	6	2.91	9.0	11
1924.....	32.3	68	-13	3.44	11.1	9	33.3	67	12	3.76	8.0	8
1925.....	40.8	75	-2	1.54	0.1	7	43.0	74	13	2.18	..	7
1926.....	34.2	68	-5	3.99	16.2	12	35.5	65	8	3.92	11.9	10
1927.....	39.9	73	15	3.86	8.4	11	40.9	69	22	3.57	3.6	8
1928.....	35.4	66	0	2.78	1.2	9	36.1	63	9	3.20	1.2	9
1929.....	32.7	72	-1	3.57	11.9	9	35.0	71	11	4.65	8.5	10
1930.....	35.2	85	-20	2.06	2.8	8	40.2	82	-3	2.04	3.1	7
1931.....	38.5	65	7	1.69	0.8	8	37.3	62	14	1.54	0.2	7
1932.....	40.5	88	8	2.31	0.2	8	40.8	79	15	2.70	..	8
1933.....	35.9	70	-8	2.93	7.7	11	38.1	68	8	3.68	9.3	10
1934.....	22.5	60	-25	2.80	18.0	9	23.0	57	-15	4.12	20.1	9
1935.....	33.0	69	-12	2.63	6.8	9	34.2	64	-4	3.30	5.3	8
1936.....	26.6	70	-20	3.73	15.2	10	27.6	68	-3	4.57	13.6	10
1937.....	34.6	72	0	3.25	8.8	12	36.8	69	14	2.78	5.3	12
Period.....	33.9	88	-29	2.92	7.6	9	33.9	82	-15	3.14	6.0	9

Climatological Data for February 1937

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 precipitation, Clear, Partly cloudy, Cloudy), Prevailing direction of wind, OBSERVERS.

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; for stations of 10 to 14 years the means for the period of record are used. 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 Mt. Savage Summit, Frostburg; 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) 21st, with moderate to heavy rain and southerly winds of strong to moderate gale force. At night the winds shifted into northwest of strong to moderate gale force, the rain changing to light snow over the western half of the section and to snow flurries eastward thereof to Chesapeake Bay. During the shifting of the wind, there developed a mild and very local tornado over extreme southern Anne Arundel County, at about 11:30 p.m., embracing the Greenock-Bristol-Tracy's Landing-Jewell area, from which it moved northeastward, passing over Chesapeake Bay, Kent Island (affecting Chester), and Eastern Neck, and reached the Quaker Neck area of southwestern Kent County, on the north side of Chester River, at about 12:30 a.m. of the 22d, where it apparently dissipated. The total path was about 40 miles, its width narrow, and its course somewhat irregular. Within the affected area in extreme southern Anne Arundel County 20 tobacco barns were blown down, a number of homes were damaged, and two cows were killed; the loss of tobacco was estimated at \$50,000, the property loss at \$20,000. Within the path across Kent Island and Eastern Neck and in the Quaker Neck area many trees were uprooted, a number of telephone and power line poles were blown down, several small buildings were wrecked, one home was wrecked by an uprooted tree falling thereon, and a number of homes were damaged; this property loss was estimated at \$30,000.—J. B. Jr.

Daily Precipitation for February 1937

Table with columns for Stations, Drainage basin, Day of month (1-31), and Total. Rows list various locations in Maryland and Delaware 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 February 1937

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

Daily Temperatures for February 1937-Continued

Table with columns for Stations, days 1-31, and Mean. Rows list various Maryland locations such as Aberdeen, Annapolis, Baltimore, etc., with their respective maximum and minimum temperatures 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, Annapolis, Baltimore, Chestertown, Conowingo Dam, Dundalk, Edgewood, 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., 5-10 37-1,000)