

CLIMATOLOGICAL DATA

15

MARYLAND AND DELAWARE SECTION

J. BILY, jr.

PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

VOL. L BALTIMORE, MD., JANUARY 1946 No. 1

GENERAL SUMMARY

This January was mild, with a mean temperature 6.7° warmer than January 1945. It was the mildest January since 1937. Monthly precipitation averaged 52% of normal, the least in January since 1931. Monthly snowfall averaged 58% of normal, the least in January since 1938.

The cold periods were 1st-2d, 16th, 20-24th, and 27th. Cool periods were 14-15th, 17th, and 28th. Mild periods were 3d-4th, 11th, 13th, 18-19th, 25-26th, and 29-30th. The outstanding temperature period was the warm spell of the 5-10th, which was mostly cloudy; the mean temperature of this period averaged close to 20° above normal. The 12th and 31st were warm.

Precipitation was confined to the first and third decades; the daily amounts were light to moderate. The second decade was dry.

Monthly sunshine was slightly below normal.

There were no damaging windstorms.

Monthly precipitation over the section was between 1.1 and 2 inches, except between 2 and 3 inches over the eastern portions of Kent (Del.) and Sussex Counties, in Worcester and southern Somerset Counties, in the southern Allegheny Mountain highlands, and at Fort George G. Meade, Frostburg, Great Falls, La Plata, Western Port, and Wilmington.

Monthly snowfall over the section presented an unusual distribution. Totals were trace to 2 inches over Somerset County, 1 to 2 inches over Cecil and northern New Castle Counties, 4 to 8 inches over Queen Anne, Kent (Md.), northern Kent (Del.), and southern Sussex Counties, 4 to 9.8 inches in Calvert, Anne Arundel, southern Howard, southeastern Frederick, Montgomery, Prince Georges, and eastern Charles Counties and the District of Columbia, 4 to 10.7 inches in the western half of western Maryland, and 2 to 4 inches over the remainder of the section, except 5 to 6 inches in the Clear Spring and Keedysville districts.

Light snow fell over the Allegheny Mountain region on the 1st, 15th, 25th, and 26th; at Frostburg on the 4th; over southern Garrett County on the 12th, 13th, and 24th; at Keedysville on the 12th; at Solomons and over Worcester County on the 17th; over the section on the 20th-21st, except falls were moderate to heavy, 4 to 7 inches, over Allegany County; over the central division and Eastern Shore on the 26-27th, except falls were moderate to heavy, 4 to 8 inches, over Montgomery, southern Howard, western Anne Arundel, and Prince Georges Counties and the District of Columbia, and 4 to 7 inches over southwestern Kent (Md.) County and thence eastward to Delaware Bay.

Snow flurries occurred between the Allegheny Mountains and Delaware Bay on the 1st, over north-central Maryland on the 11th, over the southern Eastern Shore on the 15th, over the southern third of the section on the 17th, and over the Chesapeake Bay Region on the 24th.

Grains and grasses were green, in good condition, and made some growth. Husking corn, cutting wood, butchering, and pruning fruit trees were in progress.

TEMPERATURE

The monthly mean for the section, 35.1°, is 1.9° above normal. The highest monthly mean was 40.8°, at Crisfield; the lowest, 29.6°, at Frostburg. The highest temperature, 74°, occurred at Cumberland on the 6th; the lowest, 16° below zero, at Oakland on the 23d. The greatest local monthly range was 84° at Oakland; the least, 44°, at Crisfield.

PRECIPITATION

The monthly average for the section, 1.71 inches, is 1.61 inches below normal. The greatest monthly amount was 2.90 inches at Millsboro; the least, 1.12 inches, at Maryland Line. The greatest 24-hour rainfall was 1.68 inches at Millsboro on the 30th-31st. The average monthly snowfall for the section, 4.1 inches, is 3.0 inches below normal. The greatest monthly snowfall was 10.7 inches at Oakland; the least, trace at Crisfield. The greatest 24-hour snowfall was 8.0 inches at Great Falls and Takoma Park on the 26-27th.

ERRATA

December 1945: Page 46—Snow Hill, highest temperature should be 59° on the 8th; clear days should be 12, partly cloudy days should be 3, cloudy days should be 16.

MISCELLANEOUS PHENOMENA (WITH DATES)

Light fogs.—3-12, 15, 18, 20-24, 28, 30, 31. Heavy fogs.—3-10, 18, 21, 28, 30, 31. Glaze, light.—Chewsville, 11, 12, 21; north-central Maryland, 20, 21. Holes, lunar.—14-19. Halos, solar.—16, 29. Sleet, light.—11, 12, 20, 21, 24, 30, 31. Thunderstorms.—Frostburg, Sines, 9. Winds, moderately high.—1, 6, 10, 12-14, 19, 22, 25, 26, 31.

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	7:30 a. m.	1:30 p. m.	7:30 p. m.			
Aberdeen, Md.	30.53	16	29.53	31	.....	.....	.....	83	64	77	.....	946	
Annapolis, Md.	30.56	16	29.52	31	10.2	.....	.....	71	62	64	.....	908	
Baltimore, Md.	30.59	16	29.53	31	10.2	31	sw.	25	72	69	64	47	856
Elkins, W. Va.	30.57	29	29.68	31	8.8	38	w.	25	89	70	77	954	
Harrisburg, Pa.	30.56	16	29.50	31	8.6	40	nw.	19	72	59	67	38	1011
Norfolk, Va.	30.58	3	29.71	31	10.5	35	n.	17	82	67	75	34	681
Philadelphia, Pa.	30.56	16	29.47	31	7.6	23	sw.	31	76	58	69	43	926
Pittsburgh, Pa.	30.52	29	29.54	25	12.2	38	w.	31	79	64	69	39	956
Washington, D. C.	30.57	16	29.54	31	7.8	26	nw.	1	71	57	63	44	863

COMPARATIVE DATA FOR JANUARY

Year	FOR MARYLAND						FOR DELAWARE					
	Temperature			Precipitation			Temperature			Precipitation		
	Mean	Highest	Lowest	Average	Average snowfall	No. of days with .01 in. or more	Mean	Highest	Lowest	Average	Average snowfall	No. of days with .01 in. or more
1895	29.5	66	-17	4.35	13.4	11	31.6	65	7	5.09	6.8	12
1896	32.0	66	-13	1.82	1.0	4	32.0	65	4	1.62	0.6	5
1897	29.1	66	-12	1.94	8.1	7	31.7	64	3	2.00	10.3	6
1898	35.3	72	-2	3.60	5.8	11	36.7	66	15	3.25	0.8	11
1899	31.9	70	-4	3.30	5.7	10	34.8	65	-1	3.65	7.8	11
1900	33.6	69	-8	2.34	1.8	7	34.3	62	6	3.34	1.5	6
1901	32.5	68	-4	2.68	8.4	7	33.5	68	6	2.94	5.5	5
1902	29.8	59	-7	3.52	10.2	9	31.5	64	8	3.64	5.2	8
1903	31.4	62	-6	4.02	6.7	9	33.6	60	8	3.73	4.2	8
1904	25.7	64	-20	2.59	15.3	10	28.6	63	-10	2.05	8.1	10
1905	28.6	69	-14	3.66	17.0	11	29.5	63	-6	4.14	19.3	10
1906	38.7	75	-6	2.85	2.3	10	40.2	76	5	3.08	2.0	11
1907	35.6	76	-19	3.18	6.2	12	37.5	77	3	2.36	3.6	12
1908	32.6	63	-21	3.24	7.1	8	34.3	63	5	3.37	6.1	8
1909	34.9	69	-3	2.74	6.1	10	38.1	71	10	2.84	4.1	9
1910	31.9	69	-12	4.38	12.9	12	33.5	65	6	4.07	3.0	10
1911	36.7	76	-5	3.96	4.3	12	38.6	68	11	4.14	2.6	11
1912	23.7	60	-40	2.59	15.5	10	26.5	59	-4	3.48	15.9	11
1913	41.5	74	8	3.17	1.6	13	44.3	71	22	3.23	T.	12
1914	35.9	76	-14	3.95	4.2	7	37.6	74	0	3.20	0.1	6
1915	33.7	66	-10	5.90	6.7	12	37.2	67	15	5.65	1.5	12
1916	37.9	74	-11	1.77	3.2	11	38.8	73	1	1.60	3.1	9
1917	33.3	66	0	3.07	4.4	11	34.0	64	9	3.02	1.5	9
1918	21.2	61	-30	4.24	24.0	10	22.9	58	-9	4.25	21.7	10
1919	36.0	66	-19	3.42	2.7	7	37.2	65	2	3.94	1.1	8
1920	27.8	64	-10	2.40	2.9	10	28.2	64	5	2.95	2.1	11
1921	35.5	70	-5	2.27	1.5	8	37.1	66	4	2.40	0.1	7
1922	30.1	63	-15	3.96	23.0	9	31.4	60	6	4.01	17.3	9
1923	34.7	68	0	4.12	6.5	12	35.9	67	13	4.64	2.2	10
1924	33.4	66	-10	4.07	1.8	7	35.6	67	1	3.93	T.	7
1925	30.9	63	-31	4.59	19.3	12	33.5	62	-1	5.36	7.9	12
1926	32.2	72	-11	3.12	4.6	10	34.2	65	5	2.94	1.1	10
1927	32.5	78	-5	1.60	2.1	11	33.7	73	2	1.87	4.6	10
1928	34.2	72	-11	2.48	9.4	7	35.2	71	-11	2.87	12.6	8
1929	32.6	69	-13	2.68	2.3	10	34.7	67	6	2.68	0.9	9
1930	33.8	75	-17	2.67	11.6	11	36.4	75	4	3.46	8.2	12
1931	34.4	68	-8	1.64	1.5	5	36.0	65	12	2.07	0.3	5
1932	44.4	80	-13	4.98	1.1	11	46.4	77	22	5.56	2.2	11
1933	40.8	70	-4	3.11	1.5	9	42.3	68	14	3.81	T.	8
1934	37.1	70	-6	2.52	0.5	9	38.4	66	3	2.26	T.	9
1935	31.2	71	-23	4.67	20.4	11	33.4	70	-7	5.49	16.8	11
1936	27.8	62	-20	5.87	9.7	13	30.8	61	-5	7.23	2.3	13
1937	41.6	77	11	7.43	1.1	17	44.3	72	23	8.27	T.	19
1938	39.5	67	-2	2.26	2.3	11	35.0	62	7	2.74	0.9	13
1939	35.0	69	-7	3.65	11.8	11	35.9	65	4	3.81	9.9	12
1940	22.3	59	-14	2.26	15.6	7	23.6	59	0	2.20	16.1	5
1941	32.0	62	-10	3.04	6.1	11	33.3	59	7	3.56	3.3	11
1942	32.4	66	-19	2.03	4.4	8	33.0	66	-14	2.85	3.4	8
1943	33.9	73	-5	2.95	8.9	11	34.5	71	11	2.92	4.1	9
1944	34.7	75	-13	3.29	6.5	7	35.5	72	-5	2.47	2.8	7
1945	28.4	61	-16	3.24	9.8	10	28.7	62	-1	3.82	5.7	10
1946	35.0	74	-16	1.67	4.4	9	36.1	73	3	2.01	2.1	8
Period	33.0	80	-40	3.29	7.4	10	34.6	77	-14	3.51	5.0	10

Climatological Data for January 1946

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, With precip. 0.01 in. or more, Clear, Partly cloudy, Cloudy), Number of days, Prevailing direction of wind, OBSERVERS. Includes data for Maryland and Delaware stations.

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. Italics, Data interpolated. Elevations are of ground above mean sea level.

Post addresses of these stations are as follows: Of Bell, Glendale; of Blackwater, Cambridge; of Coleman, Worton; of Edgemont, Smithsburg; 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 Takoma Park No. 2, Silver Spring; of Tonoloway, Hancock; of Trappe, Oxford; of Wiltondale, Towson. *Custom House, Gage 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 Post Office. ¶¶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 8 p. m. at Chestertown. Italics, Data interpolated.

Daily Temperatures for January 1946-Continued

Table with columns for Stations (Maryland), days 1-31, and Mean. Rows list various stations such as Aberdeen, Annapolis, Baltimore, etc., with their respective maximum and minimum temperatures for each day.

See page 2 for explanation of reference marks.

(WBO, Philadelphia, Pa. - 5-13-46 - 1200)