

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU  
IN COOPERATION WITH MARYLAND STATE WEATHER SERVICE

# CLIMATOLOGICAL DATA

## 15 MARYLAND AND DELAWARE SECTION

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PRICE: 5 CENTS A COPY; 25 CENTS A YEAR

VOL. XLV BALTIMORE, MD., JANUARY, 1941 No. 1

### GENERAL SUMMARY

January was moderately cold. Mildness and moderate cold alternated frequently. The 1st-3d was the longest mild period, while the 25-30th was the longest period of moderate cold. There was no severe cold. Strong westerly gusts on the 4th were attended by heavy snow squalls. Freezing rain in the early morning of the 16th produced a glaze or ice-coat of 0.2 to 0.5 inch in thickness, which continued into the 17th. Monthly sunshine was normal, except deficient in the Allegheny Mountain region.

Monthly precipitation was slightly below normal generally, except slightly above normal on the Eastern Shore. Totals were mostly between 3 and 4 inches, except mostly between 2 and 3 inches in western Maryland, in southern Maryland, and in Dorchester County.

Monthly snowfall averaged four-fifths of normal. Totals increased northward and westward from 0.5 to 1.0 inch over the southern Eastern Shore to 9 to 18 inches in the Allegheny Mountain region.

Light snow fell on the 4th, 9th, 10th, 11th, 15th, 19th, 29th, 30th, and 31st in the Allegheny Mountain region, on the 16th from Garrett County eastward into Baltimore County, and on the 24th over western Maryland. General snow overspread the section during the 26-28th, with light falls over the southern portion and moderate to heavy falls over the northern portion. Snow flurries occurred over the section eastward of the Allegheny Mountain region on the 4th, 9th, 15th, 19th, and 31st.

Winter grains were good color and good to excellent. Grasses were good. Activities were butchering, husking corn, pruning orchards, cutting wood, hauling manure, and caring for livestock. — J. B., jr.

### TEMPERATURE

The monthly mean for the section, 32.2°, is 1.0° below normal. The highest monthly mean was 36.4° at Ocean City and Pocomoke City; the lowest, 23.0°, at Mt. Savage Summit. The highest temperature, 62°, occurred at Snow Hill on the 23d; the lowest, 10° below zero, at Oakland on the 21st. The greatest local monthly range was 63° at Oakland; the least, 32°, at Delaware Breakwater. The greatest daily range was 52° at Oakland on the 21st.

### PRECIPITATION

The monthly average for the section, 3.12 inches, is 0.26 inch below normal. The greatest monthly amount was 4.82 inches at Millsboro; the least, 2.14 inches, at Chewsville. The greatest 24-hour rainfall was 1.75 inches at Millsboro on the 16th. The monthly average snowfall for the section, 5.6 inches, is 1.6 inches below normal. The greatest 24-hour snowfall was 6.0 inches over northeastern Harford County, over western Washington County, and over Allegany County, except the southwest portion, on the 27th. The average number of days with 0.01 inch or more of precipitation, 11, is 1 above normal.

### MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs.—2 to 5, 9 to 11, 13, 15 to 19, 22 to 30. Halos, lunar.—6, 9, 10, 12. Halo, solar.—22. Freezing rain or Glaze.—15, 16, 24. Sleet, light.—21, 15, 16, 18, 19, 23, 24, 25, 26, 27, 30, 31. Thunderstorm.—Crisfield 23. Wild geese flying north.—Oxford, 13. Winds, high.—4, 5, 13, 16, 19, 31.

### Automatic Rain and Snow Gages, Hourly Record

In the hydrometeorological and soil conservation work a number of automatic gages recording rain and snow have been put in operation and the hourly precipitation records in printed form may be consulted at the Section Center. The following gages are operated by the Weather Bureau: Aberdeen (Phillips Field), Baltimore, Beltsville, Big Finny Dam, Unionville, and Washington; the following by the Soil Conservation Service, U. S. D. A.: Boonsboro, College Park, Frederick, Goldsboro, Rohrsersville (near), Westover, Whiton Crossing, and Willards in Maryland and Dagsboro, Newark, and Wyoming in Delaware; by the Pennsylvania Electric Company, one at Sines, Md.

### 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. ....     | 30.59                                     | 7    | 29.64  | 4    | 9.7                     | 30               | w.        | 4                      | 78         | 75         | 1037                   |                                |
| Annapolis, Md. ....    | 30.61                                     | 7    | 29.64  | 4    | 8.9                     | 30               | sw.       | 4                      | 78         | 77         | 970                    |                                |
| Baltimore, Md. ....    | 30.63                                     | 7    | 29.64  | 4    | 10.6                    | 35               | sw.       | 4                      | 75         | 62         | 940                    |                                |
| Elkins, W. Va. ....    | 30.62                                     | 7    | 29.64  | 17   | 6.5                     | 30               | w.        | 4                      | 82         | 72         | 1051                   |                                |
| Harrisburg, Pa. ....   | 30.63                                     | 7    | 29.61  | 4    | 8.3                     | 26               | nw.       | 4                      | 77         | 64         | 1097                   |                                |
| Norfolk, Va. ....      | 30.57                                     | 7    | 29.71  | 4    | 10.1                    | 27               | nw.       | 24                     | 83         | 65         | 760                    |                                |
| Philadelphia, Pa. .... | 30.61                                     | 7    | 29.63  | 4    | 13.4                    | 31               | nw.       | 13                     | 81         | 65         | 1030                   |                                |
| Pittsburgh, Pa. ....   | 30.58                                     | 7    | 29.59  | 17   | 11.5                    | 36               | w.        | 4                      | 85         | 72         | 1040                   |                                |
| Washington, D. C. .... | 30.63                                     | 7    | 29.65  | 4    | 7.8                     | 26               | nw.       | 4                      | 71         | 57         | 886                    |                                |

### 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         | 68      | -13    | 3.82          | 11.0             | 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.....   | 25.3         | 72      | -2     | 3.60          | 5.8              | 11                               | 36.7         | 66      | 15     | 3.25          | 0.8              | 11                               |
| 1899.....   | 31.9         | 70      | -24    | 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          | 8.5              | 7                                | 33.5         | 68      | 6      | 2.94          | 5.5              | 5                                |
| 1902.....   | 29.8         | 59      | -7     | 3.52          | 10.2             | 8                                | 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     | 2.08          | 8.1              | 10                               |
| 1905.....   | 28.6         | 69      | -14    | 3.66          | 17.0             | 11                               | 29.5         | 63      | 6      | 4.14          | 19.3             | 10                               |
| 1906.....   | 33.7         | 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              | 12                               | 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      | 3.62          | 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             | 8                                | 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     | 5.35          | 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         | 72      | -5     | 1.60          | 2.1              | 11                               | 33.7         | 73      | 2      | 1.87          | 4.6              | 10                               |
| 1928.....   | 34.2         | 78      | -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              | 5                                |
| 1931.....   | 34.4         | 86      | -8     | 1.64          | 1.6              | 5                                | 36.0         | 65      | 12     | 2.07          | 0.3              | 5                                |
| 1932.....   | 44.4         | 86      | -13    | 4.98          | 1.1              | 12                               | 46.4         | 77      | 22     | 5.56          | 1.2              | 11                               |
| 1933.....   | 40.5         | 79      | 4      | 3.11          | 3.5              | 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     | 7.25          | 2.3              | 13                               |
| 1937.....   | 41.6         | 77      | 11     | 7.43          | 1.1              | 17                               | 44.3         | 72      | 23     | 8.27          | T.               | 19                               |
| 1938.....   | 33.5         | 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                               |
| Period..... | 33.0         | 80      | -40    | 3.35          | 7.5              | 10                               | 34.8         | 77      | -11    | 3.56          | 5.2              | 10                               |

Climatological Data for January 1941

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, With precip., 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...

Daily Precipitation for January 1941

Table with columns for Stations, Drainage basin, Day of month (1-31), and Total. Rows list various Maryland and Delaware stations with their respective precipitation data 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.
1 First-order Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.
2 Precipitation is for 24-hour period, midnight to midnight.
3 Precipitation is for 24-hour period, 9:30 p.m. to 9:30 p.m.
4 Precipitation is measured in the morning; amount then recorded is for the preceding 24 hours.
5 Precipitation is measured at 1:30 a.m.; amount then recorded is entered on preceding day.
6 Precipitation is measured with recording gage.
7 Precipitation is included in the next measurement.
T, Trace, or precipitation is less than .01 inch.
8 Two miles northwest of Frostburg.
9 Municipal Building.
10 Porter Reservoir.
11 Water Pumping Station.
12 University Farm.

Daily Temperatures for January 1941

Table with columns for Stations, Day of month (1-31), and Mean. Rows list various Maryland and Delaware stations with their maximum and minimum temperatures for each day.

Daily Temperatures for January 1941-Continued

Table with columns for Stations, days 1-31, and Mean. Rows list various Maryland and Delaware 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, Sines and Washington are from midnight to midnight; at Mt. Savage Summit and Delaware Breakwater the thermometers are read at 1:30 a. m. the extremes are charged to the preceding day; other stations, except Cheltenham, Cumberland, and Pocomoke City, are for 24-hour period ending late in afternoon, near sunset, except 9:30 p. m. at Princess Anne.