

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

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GENERAL SUMMARY

This was the first moderately cold and the first dry November since 1936. Cold weather was interrupted by mild temperatures during the 7-8th, 10-11th, 15-19th, and 27-30th. The days were clear from the 9th to the 18th and overcast from the 19th to the 22d. Monthly sunshine was about 10% above normal. There were no damaging winds.

Monthly precipitation was less than 1 inch in the northeast portion of the section and mostly between 1 inch and 2 inches in the other divisions, and averaged 54% of normal.

Monthly snowfall was a trace to 0.5 inch in the eastern and central divisions, 1 inch to 2 inches in Washington County, and 5 to 13 inches in Allegany and Garrett Counties, and averaged normal.

Snow flurries occurred in the Allegheny Mountain region on the 4th, in the Blue Ridge Mountain region on the 4th and 5th, in the extreme northern portion of the Eastern Shore during the night of the 13-14th and on the 23d, in the eastern and central divisions on the 21st, 22d, and 25th, and in the western and central divisions on the 23d.

Snowfall was light to heavy on the 5th and light on the 22d in western Maryland. Light snow fell over the section on the 20th, except over the eastern half of the Eastern Shore and the central and western portions of Garrett County. Light snow fell in the Allegheny Mountain region on the 21st and 30th.

Early sown wheat, rye, and barley were growing, were good color, and were good to excellent. Pastures were fair to good.

During the first decade sowing grains on the extreme southern Eastern Shore, digging sweet potatoes on the southern and central Eastern Shore, and picking late apples, late peaches, and Keiffer pears over the section ended. Digging late potatoes ended during the first decade in the northern portion and during the second decade in the southern portion of the central and eastern divisions. Late sown grains came up during the first and second decades. Harvesting late autumn crops, husking corn, spreading fertilizer, cutting wood, plowing, combining soy beans, stripping tobacco, butchering, gathering holly, and making holly wreaths were in progress. — J. B., jr.

TEMPERATURE

The monthly mean for the section, 43.5°, is 1.6° below normal. The highest monthly mean was 47.4° at Baltimore and Ocean City; the lowest 35.7°, at Mt. Savage Summit. The highest temperature, 75°, occurred at Great Falls on the 18th; the lowest, 12°, at Sines on the 29th. The greatest local monthly range was 61° at Sines; the least, 33°, at Delaware Breakwater. The greatest daily range was 52° at Oakland on the 10th.

PRECIPITATION

The monthly average for the section, 1.33 inches, is 1.13 inches below normal. The greatest monthly amount was 2.63 inches at Cumberland; the least, 0.33 inch, at Aberdeen. The greatest 24-hour precipitation was 1.78 inches at Cumberland on the 4-5th. The monthly average snowfall for the section, 1.2 inches, is normal. The greatest 24-hour snowfall was 10.0 inches at Picardy on the 4-5th. The average number of days with 0.01 inch or more of precipitation, 5, is 3 below normal.

MISCELLANEOUS PHENOMENA (WITH DATES)

Earthquake tremors: Northeast portion of section, 14, 17, 26.
Fogs: 1 to 5, 10, 14 to 16, 18, 19, 21 to 25, 28, 30.
Halos, lunar: 7, 22. *Halos, solar:* 4, 7, 18, 19, 26.
Sleet, light: 4, 5, 14, 20, 21, 22.
Sundog: Chestertown, 26.
Winds, high: 5, 8, 10, 11, 20.

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 monthly velocity | Maximum velocity | Direction | Date | 7:30 a. m. | 1:30 p. m. | 7:30 p. m. | | |
| Aberdeen, Md. | 30.55 | 4 | 29.77 | 1 | 10.8 | 38 | ne. | 5 | 73 | 66 | 63 | 64 | 646 |
| Annapolis, Md. | 30.53 | 3 | 29.75 | 1 | 8.5 | 34 | sw. | 8 | 74 | 44 | 64 | 65 | 557 |
| Baltimore, Md. | 30.54 | 4 | 29.79 | 1 | 10.4 | 34 | sw. | 10 | 86 | 53 | 70 | 64 | 531 |
| Elkins, W. Va. | 30.60 | 15 | 29.58 | 1 | 5.4 | 28 | w. | 10 | 86 | 53 | 70 | 64 | 531 |
| Harrisburg, Pa. | 30.56 | 4 | 29.77 | 1 | 8.1 | 28 | sw. | 10 | 70 | 45 | 57 | 64 | 668 |
| Norfolk, Va. | 30.53 | 15 | 29.83 | 5 | 10.4 | 32 | ne. | 20 | 75 | 52 | 63 | 56 | 444 |
| Philadelphia, Pa. | 30.54 | 4 | 29.70 | 1 | 13.7 | 35 | ne. | 5 | 66 | 48 | 52 | 65 | 601 |
| Pittsburgh, Pa. | 30.58 | 3 | 29.81 | 1 | 10.7 | 43 | sw. | 10 | 78 | 52 | 62 | 49 | 671 |
| Washington, D. C. | 30.56 | 3 | 29.90 | 1 | 7.1 | 22 | nw. | 11 | 69 | 41 | 57 | 61 | 572 |

COMPARATIVE DATA FOR NOVEMBER

| 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 | 45.6 | 86 | 0 | 1.64 | 0.1 | 7 | 47.9 | 78 | 24 | 1.94 | T. | 8 |
| 1896 | 49.1 | 78 | 12 | 3.07 | 2.2 | 7 | 51.6 | 78 | 25 | 3.15 | 1.7 | 10 |
| 1897 | 45.0 | 78 | 5 | 4.76 | 0.2 | 12 | 46.6 | 72 | 21 | 3.78 | T. | 13 |
| 1898 | 42.8 | 78 | 6 | 3.82 | 0.5 | 11 | 44.2 | 73 | 22 | 4.58 | 5.5 | 12 |
| 1899 | 44.9 | 73 | 12 | 2.02 | T. | 6 | 45.0 | 66 | 22 | 2.15 | 0.0 | 6 |
| 1900 | 47.3 | 81 | 4 | 3.00 | 1.0 | 6 | 49.9 | 76 | 22 | 2.59 | T. | 6 |
| 1901 | 39.1 | 74 | 4 | 2.72 | 2.3 | 5 | 40.6 | 76 | 17 | 2.20 | 1.2 | 4 |
| 1902 | 50.8 | 80 | 11 | 3.12 | 0.3 | 8 | 52.2 | 80 | 27 | 3.06 | 0.0 | 7 |
| 1903 | 40.9 | 82 | 1 | 1.17 | 0.8 | 5 | 42.5 | 79 | 12 | 1.36 | 0.1 | 5 |
| 1904 | 41.9 | 72 | 11 | 1.62 | 2.2 | 4 | 42.2 | 67 | 18 | 2.17 | 0.1 | 6 |
| 1905 | 43.2 | 77 | 10 | 1.30 | 0.1 | 6 | 44.8 | 73 | 14 | 1.09 | T. | 5 |
| 1906 | 45.2 | 78 | 15 | 1.43 | 1.0 | 5 | 46.0 | 75 | 22 | 1.99 | 0.4 | 6 |
| 1907 | 42.8 | 70 | 10 | 5.27 | 1.0 | 11 | 45.2 | 70 | 22 | 5.78 | 0.1 | 12 |
| 1908 | 44.5 | 76 | 3 | 0.95 | 4.2 | 3 | 45.9 | 76 | 20 | 1.31 | 0.1 | 3 |
| 1909 | 49.1 | 85 | 11 | 1.16 | 1.0 | 6 | 49.6 | 79 | 23 | 2.12 | 1.2 | 7 |
| 1910 | 40.9 | 76 | 2 | 2.05 | 3.5 | 8 | 42.1 | 74 | 18 | 2.44 | 0.2 | 6 |
| 1911 | 42.3 | 82 | 6 | 3.99 | 0.5 | 10 | 44.7 | 72 | 20 | 5.31 | 0.0 | 11 |
| 1912 | 46.1 | 79 | 10 | 2.04 | 1.2 | 5 | 47.8 | 78 | 14 | 2.74 | 3.0 | 5 |
| 1913 | 47.0 | 87 | 10 | 2.19 | 1.2 | 7 | 48.8 | 79 | 27 | 1.54 | T. | 6 |
| 1914 | 44.2 | 82 | 0 | 2.04 | 0.1 | 3 | 46.8 | 80 | 15 | 1.96 | T. | 3 |
| 1915 | 44.8 | 79 | 14 | 1.46 | T. | 7 | 46.6 | 76 | 19 | 0.92 | T. | 4 |
| 1916 | 44.9 | 83 | 9 | 2.18 | 0.1 | 8 | 45.4 | 74 | 15 | 2.28 | T. | 8 |
| 1917 | 41.2 | 76 | 1 | 0.60 | 1.9 | 4 | 41.5 | 70 | 15 | 0.49 | 1.6 | 3 |
| 1918 | 44.9 | 74 | 13 | 1.47 | 0.1 | 5 | 45.4 | 71 | 17 | 1.27 | 0.0 | 4 |
| 1919 | 45.5 | 81 | 11 | 3.29 | 0.1 | 11 | 46.6 | 78 | 20 | 3.35 | 0.0 | 10 |
| 1920 | 44.4 | 76 | 3 | 3.82 | 0.8 | 10 | 46.3 | 75 | 16 | 5.88 | 0.0 | 10 |
| 1921 | 46.7 | 82 | 15 | 4.34 | 0.1 | 13 | 48.4 | 81 | 25 | 3.98 | T. | 13 |
| 1922 | 46.2 | 75 | 14 | 0.65 | 0.5 | 5 | 47.0 | 74 | 23 | 0.82 | T. | 7 |
| 1923 | 43.9 | 68 | 12 | 2.00 | 0.2 | 9 | 45.0 | 67 | 21 | 2.85 | 0.0 | 7 |
| 1924 | 44.4 | 79 | 10 | 1.79 | 1.8 | 5 | 46.2 | 79 | 16 | 2.13 | 0.3 | 6 |
| 1925 | 42.9 | 74 | 6 | 3.11 | 0.3 | 10 | 45.0 | 74 | 20 | 3.04 | 0.2 | 9 |
| 1926 | 43.0 | 75 | 7 | 4.45 | 0.1 | 8 | 44.9 | 75 | 19 | 3.70 | T. | 8 |
| 1927 | 49.7 | 79 | 9 | 2.78 | 0.3 | 9 | 51.2 | 79 | 22 | 3.44 | T. | 10 |
| 1928 | 47.0 | 80 | 13 | 1.89 | 1.3 | 8 | 48.3 | 79 | 21 | 1.72 | T. | 9 |
| 1929 | 45.8 | 85 | 7 | 2.62 | 1.8 | 11 | 48.0 | 82 | 11 | 2.62 | 1.4 | 12 |
| 1930 | 44.6 | 75 | 16 | 1.19 | 0.8 | 9 | 46.8 | 74 | 8 | 2.04 | T. | 9 |
| 1931 | 51.6 | 80 | 16 | 0.95 | 0.9 | 6 | 52.9 | 79 | 23 | 0.86 | 0.1 | 5 |
| 1932 | 43.2 | 72 | 2 | 5.22 | T. | 9 | 45.7 | 70 | 13 | 5.50 | T. | 9 |
| 1933 | 42.5 | 81 | 8 | 1.38 | 2.0 | 7 | 44.2 | 75 | 10 | 1.63 | 0.2 | 5 |
| 1934 | 47.8 | 80 | 10 | 3.56 | 0.2 | 10 | 49.1 | 76 | 20 | 3.65 | T. | 9 |
| 1935 | 48.4 | 86 | 9 | 4.32 | 0.8 | 12 | 50.4 | 80 | 23 | 5.34 | 1.1 | 15 |
| 1936 | 43.0 | 82 | 4 | 1.02 | 0.7 | 6 | 44.8 | 80 | 15 | 0.93 | T. | 6 |
| 1937 | 44.2 | 79 | 3 | 3.43 | 0.6 | 7 | 46.2 | 71 | 19 | 3.61 | T. | 8 |
| 1938 | 47.7 | 85 | 8 | 2.77 | 8.6 | 10 | 49.8 | 81 | 8 | 2.95 | 6.3 | 11 |
| 1939 | 43.4 | 75 | 12 | 1.33 | 1.4 | 5 | 43.9 | 71 | 23 | 1.36 | T. | 6 |
| Period | 44.9 | 87 | -16 | 2.44 | 1.2 | 8 | 46.5 | 82 | 8 | 2.61 | 0.6 | 8 |

Climatological Data for November 1939

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 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 November 1939

Table with columns for Stations, Drainage basin, Day of month (1-31), and Total. Rows list various locations like Aberdeen, Annapolis, Baltimore, etc., 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.
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 with recording gage.
6 Precipitation is included in the next measurement.
T Trace, or precipitation is less than .01 inch.
7 Two miles northwest of Frostburg.
88 Municipal Building.
999 Porter Reservoir.

Daily Temperatures for November 1939

Table with columns for Stations, Day of month (1-31), and Mean. Rows list locations like Bridgeville, Delaware Breakwater, Delaware City, etc., with maximum and minimum temperatures for each day.

Daily Temperatures for November 1939-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 there read is charged to preceding day, on which it almost always occurs. Temperatures at Aberdeen, Annapolis, Baltimore, Conowingo Dam, Dundalk, Sines, and Washington are from midnight to midnight; other stations, except Cheltenham and Cumberland, are or 24-hour period ending late in afternoon, near sunset, except 9:30 p.m. at Princess Anne. (WBO, Richmond, Va. 3-11-40-1,150)