

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

CHARLES F. MARVIN, Chief

In Cooperation with Maryland State Weather Service

CLIMATOLOGICAL DATA

15 MARYLAND AND DELAWARE SECTION

JOHN R. WEEKS, Meteorologist and Section Director

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GENERAL SUMMARY

Dry and sunshiny weather, typical of autumn, and also an unusual abundance of warm and pleasant weather characterized this month, which was 3° warmer than normal, 5° warmer than October, 1930, and the mildest October since 1920. The average rainfall was slightly more than twice that in October, 1930. Except for prolonged rain during nights of 8-9th and 28-29th, rainfall was of the light-shower type and occurred mostly at night. Monthly sunshine was 10 per cent above normal. Relative humidity averaged between 5 and 10 per cent below normal. The 18th-23d was an unusually long period of clear sky and uninterrupted sunshine. There were no damaging winds.

The first eight days were unusually warm, with summer-like temperatures. Much cooler weather followed on the 9-10th, with temperatures slightly below normal. The 11th was mild. Cool weather prevailed again on the 12-13th. A mild spell from the 14th to 16th gave way to the coolest spell of the month from the 17th to 19th. Mild weather returned on the 20th and continued to the 30th. Cooler weather, though but seasonable, marked the 31st.

Frosts were heavy on the 13th, 18th, 19th, and 20th, except light in the Chesapeake Bay and Atlantic coast regions. They were damaging, or killing, on the 13th, 19th, and 20th in western Maryland and the western and central portions of north-central Maryland and on the 19th and 20th locally in the interior of the Eastern Shore.

Monthly rainfall was unevenly distributed and averaged 62 per cent of normal. Totals were 0.7 to 1 inch between the Allegheny and Blue Ridge Mountains, 1 to 2 inches in north-central Maryland, 1 to 3 inches in the Allegheny Mountain region, and mostly 2 to 3 inches in southern Maryland and on the Eastern Shore, except 3 to 4 inches in Talbot County.

Rain was moderate to heavy in southern Maryland and on the Eastern Shore during nights of 8-9th and 15-16th, in southern Baltimore and southern Harford Counties during night of 15-16th, and in the Allegheny Mountain region during night of 16-17th; and heavy generally in central and eastern divisions during night of 28-29th.

Snow flurries occurred on the 17th and 31st in the Allegheny Mountain region and on the 31st in the Blue Ridge Mountain region.

Cutting corn and harvesting tomatoes, sugar corn, tobacco, peaches, early apples, and early pears ended during the first decade. Harvesting late apples, kieffer pears, cowpeas and soy beans for hay, truck, and gardens, digging sweet potatoes and late potatoes, husking corn, stripping some tobacco, preparing vegetables for winter storage, cutting wood, plowing and harrowing, and sowing winter grains were in progress. Crop yields were good, except late potato crop was light. Sowing grains was not finished in southern Maryland and on the Eastern Shore. Tobacco was curing nicely. Wheat in the Allegheny Mountain region and barley in north-central Maryland, that came up last

month, were a good stand and in fine condition. Early-sown wheat and rye came up fair to good stands between the Allegheny and Blue Ridge Mountains and in north-central Maryland during the second decade and in southern Maryland and on the Eastern Shore during the third. Generous rain during night of 28-29th benefited grains that were up and caused germination of the late-sown. Pastures deteriorated from good and excellent to fair in western and north-central Maryland and from fair and good to poor generally in southern Maryland and on the Eastern Shore. Wells and springs were low generally.—J. B., jr.

PRESSURE

The monthly mean sea-level pressure at Washington, D. C., was 30.08; at Baltimore and Aberdeen, 30.07 inches. The highest at Washington, D. C., was 30.50; at Baltimore and Aberdeen, 30.49 inches—all on the 12th. The lowest at Washington, D. C., was 29.53 inches on the 16th; at Baltimore 29.48 and at Aberdeen 29.47 inches—both on the 17th.

TEMPERATURE

The monthly mean for the section, 59.3°, is 2.9° above normal. The highest monthly mean was 64.1° at Solomons; the lowest, 50.3°, at Sines. The highest temperature, 91°, occurred at Stevensville on the 8th; the lowest, 22°, at Oakland on the 19th and 20th. The greatest monthly range was 66° at Hancock; the least, 44°, at Baltimore and Solomons. The greatest daily range was 53° at Oakland on the 23d.

PRECIPITATION

The monthly average for the section, 1.78 inches, is 1.10 inches below normal. The greatest monthly amount was 4.08 inches at Easton; the least, 0.71 inch, at Cumberland. The greatest 24-hour amount was 1.85 inches at Friendsville on the 16-17th. The monthly average snowfall for the section, trace, is 0.1 inch below normal. The greatest monthly snowfall was 0.2 inch at Oakland. The number of days with 0.01 inch or more of precipitation, 6, is 1 below normal.

RELATIVE HUMIDITY

The average percentages were: Washington, D. C., 8 a. m., 81; 12 noon, 46; 8 p. m., 64. Baltimore, Md., 8 a. m., 70; 12 noon, 46; 8 p. m., 57. Aberdeen, Md., 8 a. m., 85; 4 p. m., 48. Philadelphia, Pa., 8 a. m., 74; 12 noon, 49; 8 p. m., 59.

WIND

(By 3-cup anemometer, except 4-cup at Aberdeen, Md.)

The prevailing direction for the section was southwest. The total movement at Washington, D. C., was 3,017; at Baltimore, 5,605; at Aberdeen, 4,000 miles. The maximum velocity at Washington, D. C., was 24 miles from the northwest on the 17th; at Baltimore and Aberdeen, 32 miles from the southwest on the 25th.

SUNSHINE AND CLOUDINESS

At Washington, D. C., 70 per cent of the possible sunshine was recorded; at Baltimore, 73 per cent; at Aberdeen, 76 per cent. For the whole section the average number of clear days was 17; partly cloudy, 9; cloudy, 5.

MISCELLANEOUS PHENOMENA (WITH DATES)

Auroras.—Frostburg, 12; Grantsville, 12, 13.  
Fogs, dense.—Aberdeen, 1, 4, 24; Baltimore, Darlington, and Fallston, 24; La Plata, 4, 30; Princess Anne, 5.  
Frosts.—See "General Summary".  
Hail, light.—Oakland, 16.

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Climatological Data for October, 1931

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, etc.), Number of days (Clear, Partly cloudy, Cloudy), Preventing direction of wind, Observers.

The departures from normal temperature and precipitation are computed only for such stations as have 10 or more years of record, but all complete reports are used in determining section or division means. Data in italics determined from surrounding sections. T. Precipitation is less than 0.01 inch rain or melted snow. Reference letters, a, b, c, appearing in the table indicate number of days missing: For example, b represents two days, etc. † Prettlyboy Dam. †† Post office addresses of these stations are as follows: Of Bell, Glenndale; of Coleman, Worton; of Fallston, Bagley; of Ferry Landing, Owings; of Great Falls, Bethesda; of Pleasant Hill, Owings Mills; of Public Landing, Snow Hill. †Also on other dates. \*Custom House, Gay and Water Streets. \*\*Weather Bureau Building, 24th and M Streets.

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Rainbows.—Aberdeen and Baltimore, 8; Sines, 30.
Steet, light.—Frederick, 31.
Thunderstorms.—Allegheny Mountain region, 6, 16; over section, 8; central and eastern divisions, 15; northern Carroll and northern Baltimore Counties, and Milford, 25; southern Maryland and Eastern Shore, 29.

Winds, high.—Westerly, 8, 17, 25. Northeast: On coast, 9, 12.



Daily Temperatures for October, 1931

Table with columns for Stations, days 1-31, and Mean. Rows list various Maryland and Delaware locations such as Annapolis, Baltimore, and Delaware City, with maximum and minimum temperature readings for each day.

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from record. §§ Instruments are read in morning; maximum temperature then read is charged to preceding day, in which it almost always occurs. Temperatures at Aberdeen, Baltimore, Sines, and Washington are from midnight to midnight; other stations, except Cumberland and Takoma, are for 24-hour period ending late in afternoon, near sunset. Data in italics determined from surrounding stations. (WB-1-25-32-930)