

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

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In Cooperation with Maryland State Weather Service

CLIMATOLOGICAL DATA

MARYLAND AND DELAWARE SECTION

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VOL. XXXII BALTIMORE, MD., SEPTEMBER, 1927 No. 9

GENERAL SUMMARY

September was dry and sunny, and was marked by much pleasant weather and a large number of clear days. Relative humidity was below normal. There were no strong winds or thundergusts.

Monthly temperatures were somewhat above normal generally in western and north-central Maryland and somewhat below normal generally in southern Maryland and on the Eastern Shore. For the section, as a whole, the month was as mild as in 1926.

Temperature fluctuations were frequent during the first half of the month. The 1st, 5-6th, 8-10th, and 12th were cool, while the 2d-4th, 7th, and 11th were warm. A warm spell prevailed from the 13th to the 18th; it was featured by a hot day on the 15th when maximum temperatures were well up in the 90's, except slightly below 90° in the Allegheny Mountain region. A pronounced cool wave from the 19th to the 28th produced freezing temperatures and killing frosts in the Allegheny Mountain highlands from the 22d to the 26th. The 29th and 30th were warm.

The monthly rainfall averaged about two-fifths of normal, and was less than one-third as great as in this month last year. All the rain occurred during the first two decades. The 19th was the only date with general appreciable rainfall over the section; the amounts were heavy in north-central Maryland and in the extreme northern and extreme southern portions of the Eastern Shore. At a few stations the rainfall of the 19th was the monthly total. Monthly amounts were close to 1 inch generally, except close to 2 inches in the divisions where the rainfall was heavy on the 19th.

Crops.—The weather of the month was favorable for the maturing and harvesting of crops, preparation of the soil and sowing grains and clover, and other outdoor operations, but it was too dry for grasses and pastures, which deteriorated to poor or fair. Cutting early corn began during the first decade in the southern counties and during the second decade in the northern counties, except in western Maryland where filling silos was in progress during the third decade. Harvesting and canning tomatoes and sugar corn and digging sweet potatoes continued. During the third decade digging late potatoes began in western and north-central Maryland, husking corn began in the eastern and central divisions, cutting and housing tobacco and cutting cowpeas and soy beans ended, and early-sown grains came up in Garrett County. The yield of tobacco was good to very good. During the second half of the month buckwheat was harvested in Garrett County, and yielded well.

Fruits.—Harvesting of apples continued. Harvesting of peaches, early pears, cantaloupes, and watermelons ended during the first half of the month, and of late pears began during the closing week.—*J. B., jr.*

PRESSURE

The monthly mean sea-level pressure at Washington was 30.02; at Baltimore, 30.03; at Aberdeen, 30.04 inches. The

highest at Washington and Aberdeen was 30.38; at Baltimore, 30.39 inches—all on the 25th. The lowest at Washington and Aberdeen was 29.58; at Baltimore, 29.56 inches—all on the 11th.

TEMPERATURE

The monthly mean for the section, 67.8°, is 0.3° above normal. The highest monthly mean was 70.6° at Crisfield and Solomons; the lowest, 60.6°, at Grantsville. The highest, 99°, occurred at Easton on the 15th; the lowest, 26°, at Oakland on the 22d. The greatest local monthly range was 64° at Hancock; the least, 36°, at Solomons. The greatest daily range was 49° at Hancock on the 25th.

PRECIPITATION

The monthly average for the section, 1.43 inches, is 1.83 inches below normal. The greatest monthly amount was 3.79 inches at Great Falls; the least, 0.49 inch, at Easton. The greatest 24-hour amount was 2.90 inches at Maryland Line on the 18-19th. The average number of days with 0.01 inch or more, 4, is 3 below normal.

RELATIVE HUMIDITY

The average percentages were: Washington, D. C., 8 a. m., 82; 12 noon, 56; 8 p. m., 72. Baltimore, Md., 8 a. m., 74; 12 noon, 54; 8 p. m., 67. Aberdeen, Md., 8 a. m., 85; 4 p. m., 57. Philadelphia, Pa., 8 a. m., 77; 12 noon, 61; 8 p. m., 69.

WIND

The prevailing direction for the section was southwest. The total movement at Washington was 3,116; at Baltimore, 5,694; at Aberdeen, 3,452 miles. The maximum velocity at Washington was 16 miles from the northwest on the 15th and from the south on the 18th; at Baltimore, 27 miles from the west on the 15th; at Aberdeen, 24 miles from the south on the 30th.

SUNSHINE AND CLOUDINESS

At Washington 65 per cent of the possible sunshine was recorded; at Baltimore, 71 per cent; at Aberdeen, 70 per cent. For the whole section the average number of clear days was 18; partly cloudy, 8; cloudy, 4.

MISCELLANEOUS PHENOMENA (WITH DATES)

Fogs, dense.—Blue Ridge Mountain region and southern Maryland, 2; extreme southern Eastern Shore, 2, 26; northeast portion of section, 3, 4; Newburg, 4, 28; Princess Anne, 4; Frostburg, 9; Darlington, 18, 26; Emmitsburg, 18; Aberdeen, 26; southern Maryland and central and southern Chesapeake Bay, 27.

Frosts, light.—Western Maryland, except Allegheny Mountain highlands, 22 to 26; valley districts of north-central Maryland, 24, 25, 26; interior of southern Eastern Shore, 24, 25.

Frost, heavy.—Allegheny Mountain highlands, 20.

Frosts, killing.—Allegheny Mountain highlands, 22 to 26 (corn, tomatoes, late potatoes, and garden truck affected locally).

Rainbow.—Newberg, 10.

Robins flying south.—Pocomoke City, 22.

Thunderstorms.—Not general, 1, 3, 8, 9, 10, 13, 15; western and north-central Maryland, 18; entire section, except western Maryland, 19.

Climatological Data for September, 1927

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, and Observers.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Data in italics determined from surrounding stations. †. Precipitation is less than 0.01 inch rain or melted snow. Reference letters, *, †, ‡, §, ¶, appearing in the table indicate number of days missing; for example, † represents two days, etc. †† Post office 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 Pleasant Hill, Owings Mills; of Public Landing, Snow Hill. † also on other dates. * Customhouse Building, Gay and Water Streets. ** Weather Bureau Building, 24th and M Streets.

Daily Temperatures for September, 1927

Table with columns for Stations, 1-31, and Mean. Rows list various Maryland and Delaware locations with their daily temperature ranges and averages.

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