



October 2018

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Office of the Maryland State Climatologist



Department of Atmospheric and Oceanic Science

4254 Stadium Dr, College Park, MD 20742

www.atmos.umd.edu/~climate

climate@umd.edu

(301) 405-7223

PRECIPITATION

Based on the National Centers for Environmental Information (NCEI), the statewide total October precipitation was 3.88 inches, which was 1.01 inches less than last month, 0.07 inches more than in October 2017, and 0.47 inches more than the 1981-2010 average, making it the 38th wettest October in the 124-year period of record. It was the wettest October since 2013 (Table 1). Above-average precipitation was observed in the western (Figure 1). The greatest monthly precipitation accumulation was 9.78 inches, recorded at Fruitland 1.8 ENE. The greatest 24-hour precipitation was 7.35 inches, recorded at Fruitland 1.8 ENE in Wicomico County on October 12. Based on historical records, statewide October precipitation showed a slight decrease in precipitation since 1895 of 0.08 inches per decade. The highest and lowest October precipitation for the state ranged from 8.07 inches in 1976 to 0.15 inch in 1963 (Figure 2).

Percent of Normal Precipitation
October 2018

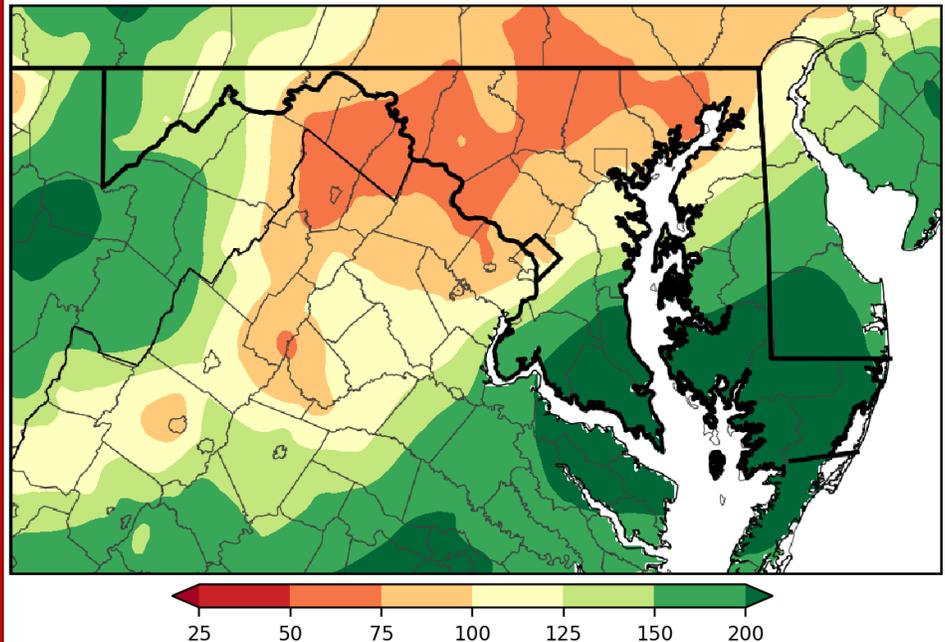


Figure 1: October 2018 precipitation percent of normal for Maryland. (NRCC)

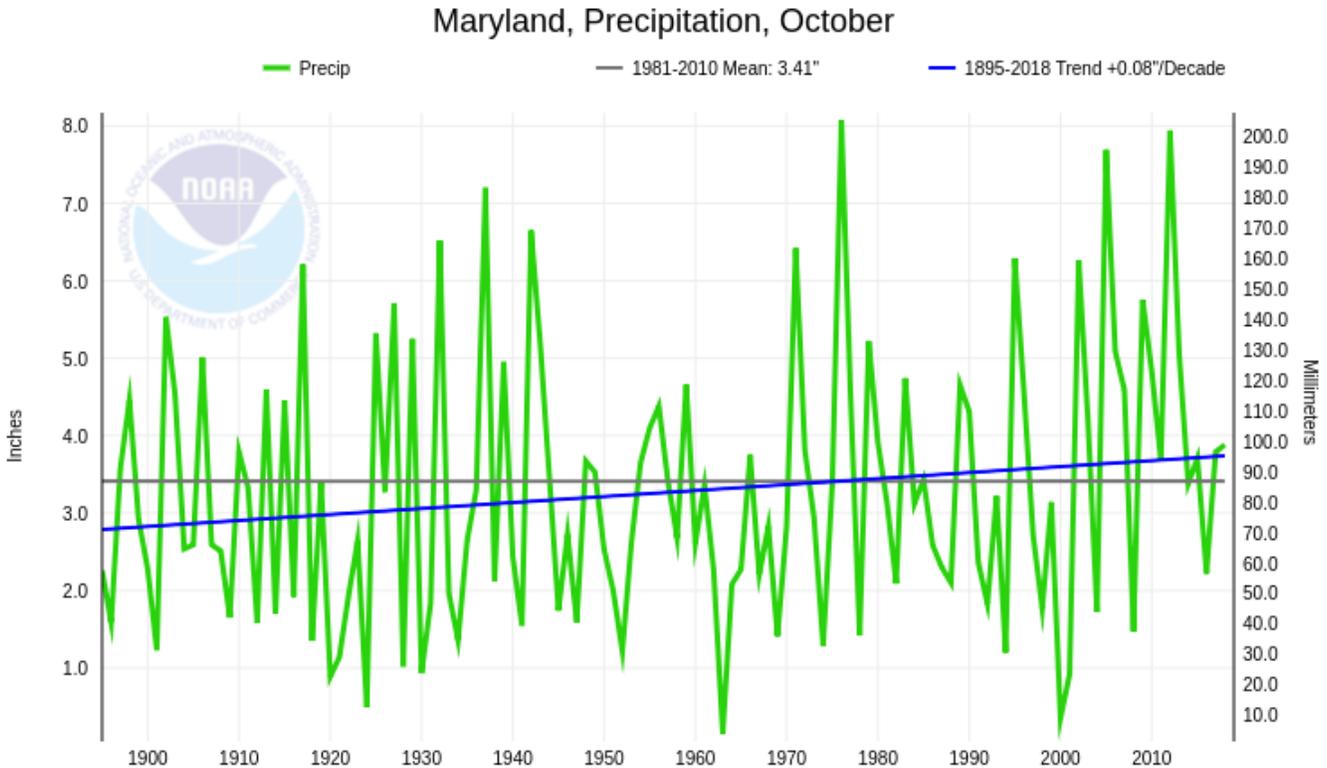


Figure 2: Historical October precipitation time series for Maryland.

October Precipitation Statistics (124 Years)

Record High: 8.07" in 1976	October 2018 value: 3.88"
Record Low: 0.15" in 1963	1981-2010 average: 3.41"
Trend: 0.08" per decade	Anomaly: 0.47"
Rank: 87 th driest	Driest since: 2017
38 th wettest	Wettest Since: 2013

Table 1: Maryland October Precipitation Statistics

TEMPERATURE

Avg Temperature Departure (° F)
October 2018

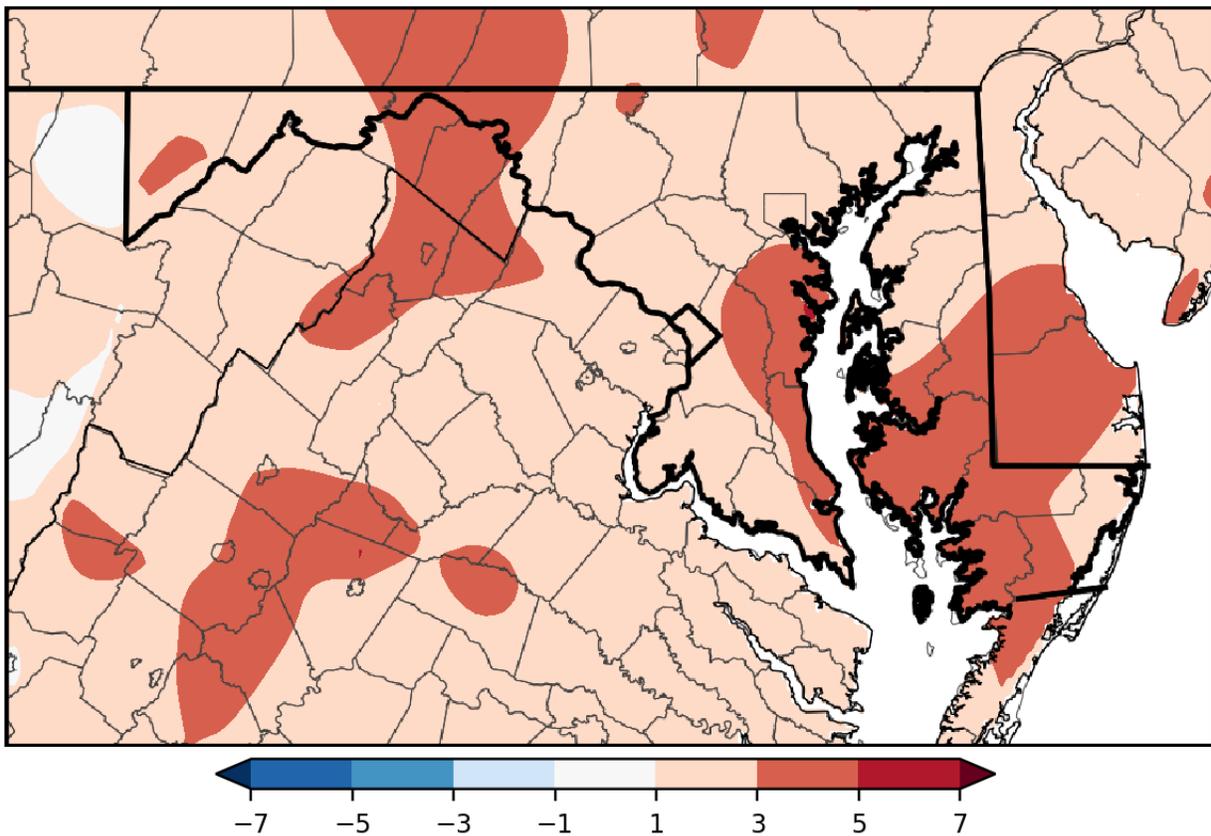


Figure 3: October 2018 average temperature departure from normal for Maryland. (NRCC)

The official state average October temperature was 58.9 °F, 18.3 °F warmer than last month and 2.2 °F cooler than in October 2017, but 2.6 °F warmer than the 1981-2010 average, making it the 110th coolest October in the 124-year period of record (tied with 1959, 1975). It was the warmest October since 2017 (Table 2). Above average temperatures were observed across the state (Figure 3). The state's highest and lowest daily temperatures ranged from 92 °F on October 4th at the Patuxent River NAS, to 24 °F on October 26th at Oakland 1 SE. Based on the historical records, the state average October temperature showed a positive long-term trend of 0.1 °F per decade since 1895. The highest and lowest monthly state October average temperatures ranged from 50.1 °F in 1895 to 63.3 °F in 2007 (Figure 4).

Maryland, Average Temperature, October

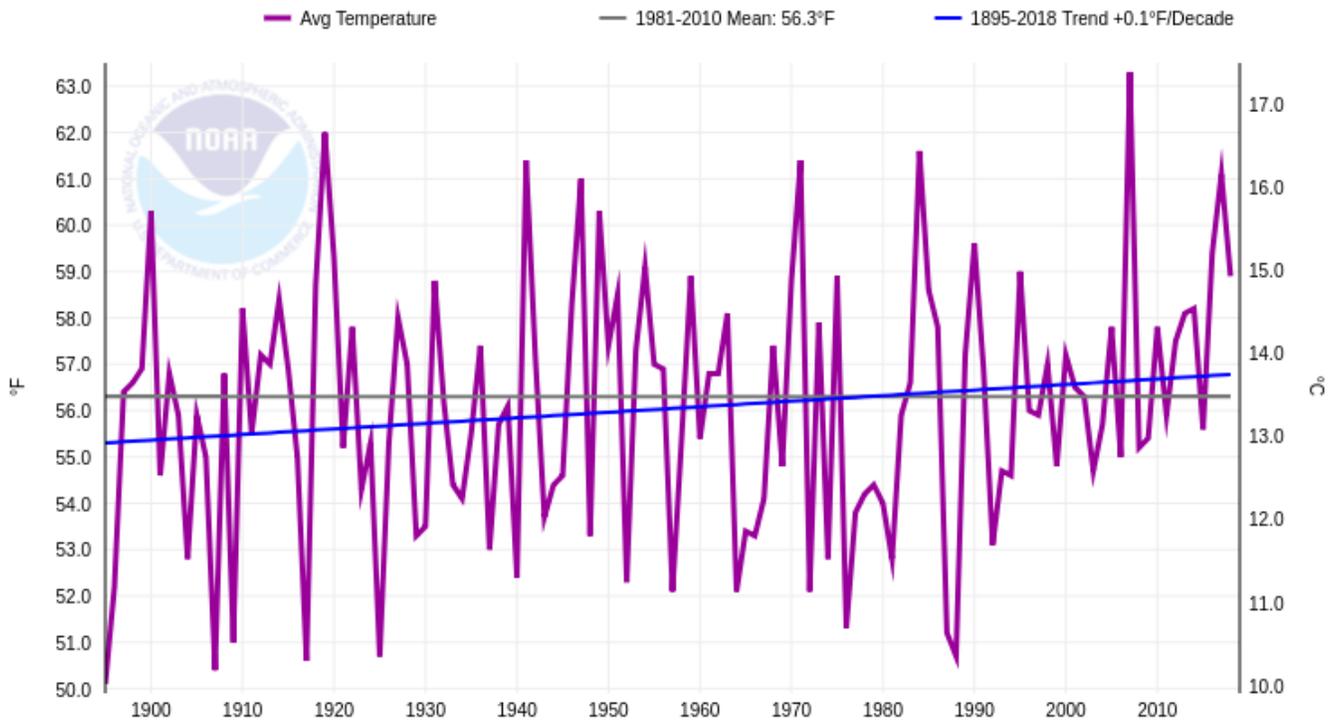


Figure 4: Historical October temperature time series for Maryland.

October Temperature Statistics (124 Years)

Record High: 63.3 °F in 2007	October 2018 value: 58.9 °F
Record Low: 50.1 °F in 1895	1981-2010 average: 56.3 °F
Trend: 0.1 °F per decade	Anomaly: 2.6 °F
Rank: 15 th warmest	Warmest since: 2017
110 th coolest	Coolest Since: 2015

Table 2: Maryland October Temperature Statistics



Maryland Monthly Climate Summary

MARYLAND STATE CLIMATOLOGIST OFFICE

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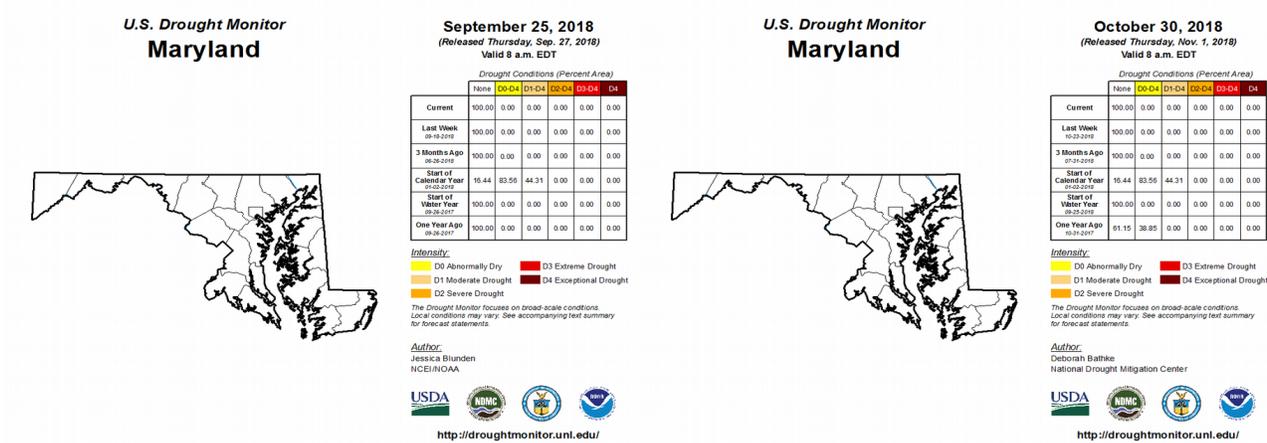


Figure 5: Drought Monitor map comparison for Maryland at the beginning (left) and end (right) of October 2018.

Drought Monitor (DM): Maryland experienced no drought in the month of October. Figure 5 shows a comparison of the drought conditions across the state from the beginning to the end of the month.



Storm Reports: The NOAA Storm Prediction Center’s Storm Report reported a total of only one significant storm event in October. Table 3 summarizes the number of tornado (0), hail (0) and damaging wind (1) reports in October, while Figure 6 geographically displays the locations of these storm reports.

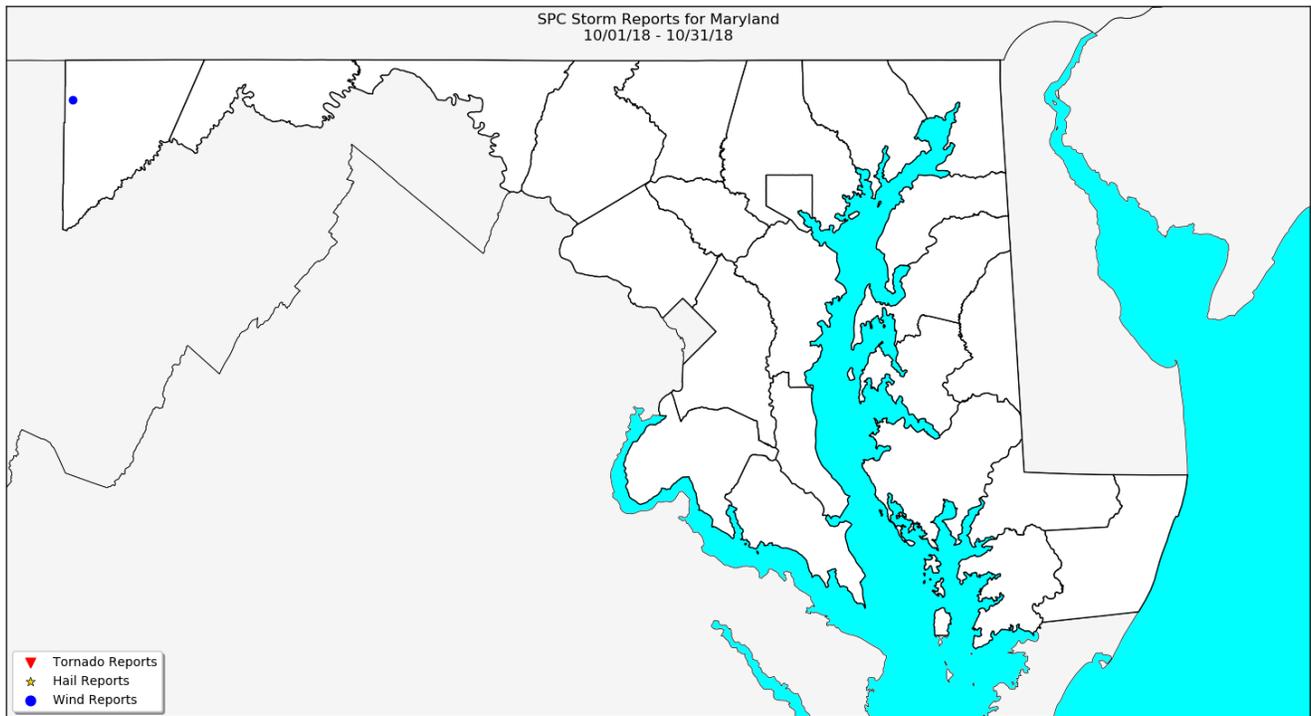


Figure 6: Map of October 2018 Maryland storm events (red: tornado, blue:wind, green:hail).

Category	Number of Reports
Tornado reports	0
Hail reports	0
Wind reports	1
Total	1

Table 3: Summary of October severe storm reports in Maryland. (SPC, NOAA)