



Maryland Monthly Climate Summary

MARYLAND STATE CLIMATOLOGIST OFFICE

August 2018

Volume: 01, No: 8

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 August precipitation was 4.89 inches, which was 3.84 inches less than last month, 0.68 inches less than in August 2017, and 1.17 inch more than the 1981-2010 average, making it the 88th wettest August in the 124-year period of record. It was the wettest August since 2017 (Table 1). Above-average precipitation was observed in all parts of the state except for the south east (Figure 1). The greatest monthly precipitation accumulation was 10.04 inches, recorded at Millers 4 NE. The greatest 24-hour precipitation was 4.65 inches, recorded at Prince Frederick 1.4 W in Calvert County on August 12. Based on historical records, statewide August precipitation showed a slight decrease in precipitation since 1895 of 0.05 inches per decade. The highest and lowest August precipitation for the state ranged from 11.85 inches in 1945 to 1.00 inch in 1930 (Figure 2).

Percent of Normal Precipitation August 2018

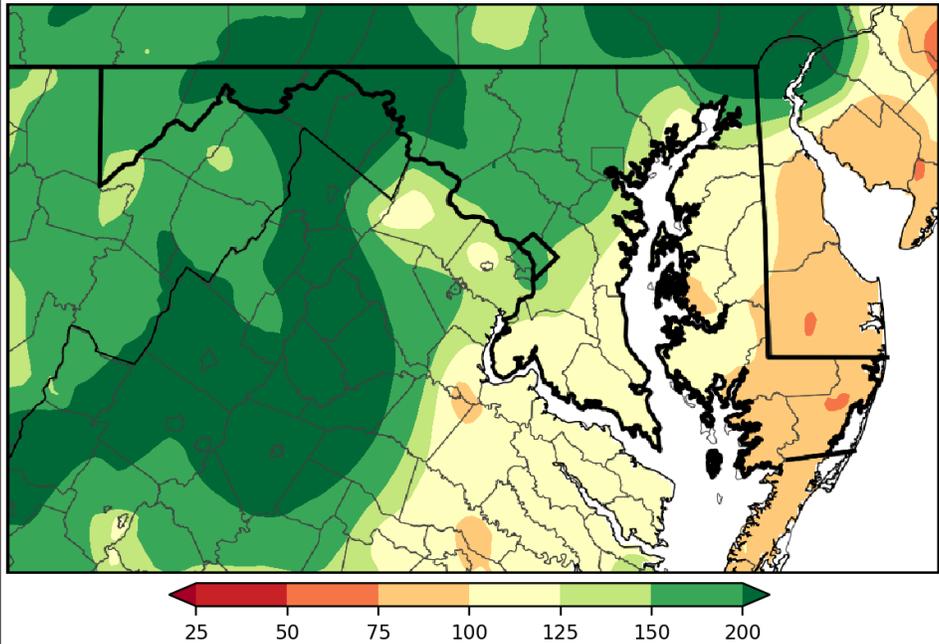


Figure 1: August 2018 precipitation percent of normal for Maryland. (NRCC)

Maryland, Precipitation, August

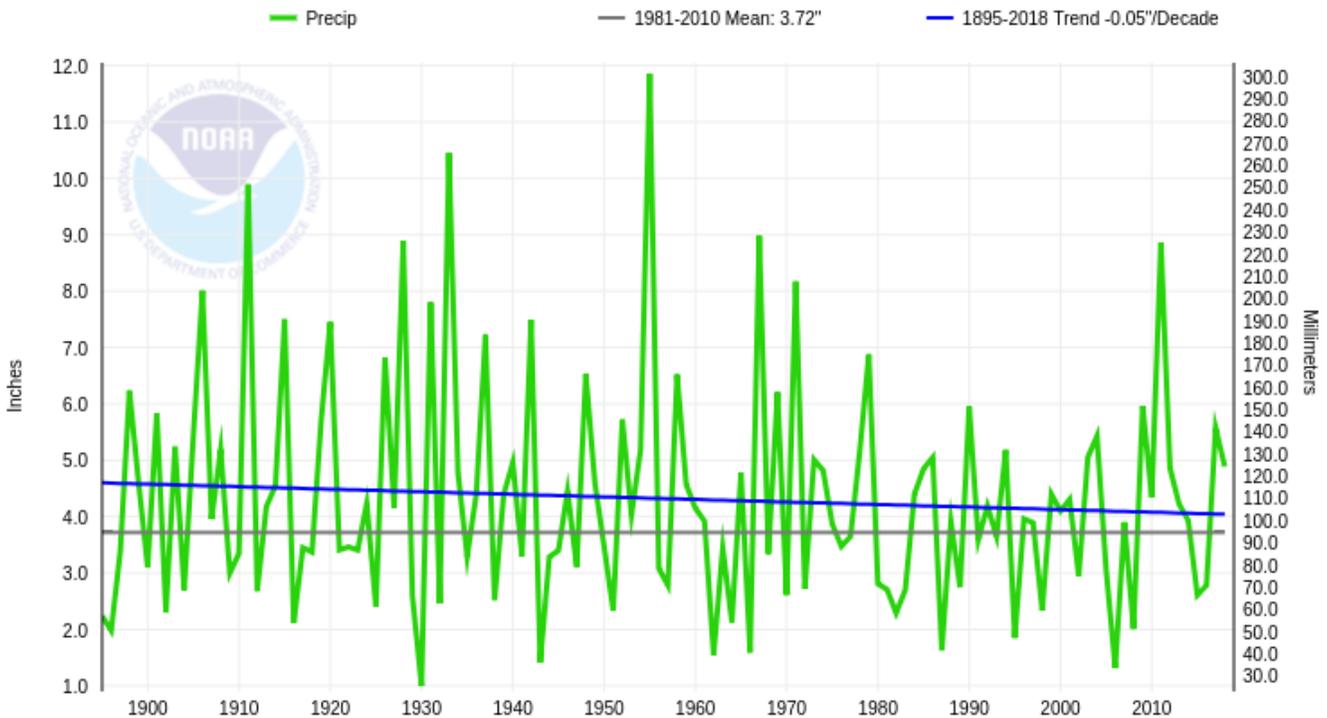


Figure 2: Historical August precipitation time series for Maryland.

August Precipitation Statistics (124 Years)

Record High: 11.85" in 1955	August 2018 value: 4.89"
Record Low: 1.00" in 1930	1981-2010 average: 3.72"
Trend: 0.05" per decade	Anomaly: 1.17"
Rank: 88 rd driest	Driest since: 2016
36 nd wettest	Wettest Since: 2017

Table 1: Maryland August Precipitation Statistics

TEMPERATURE

Avg Temperature Departure (° F)
August 2018

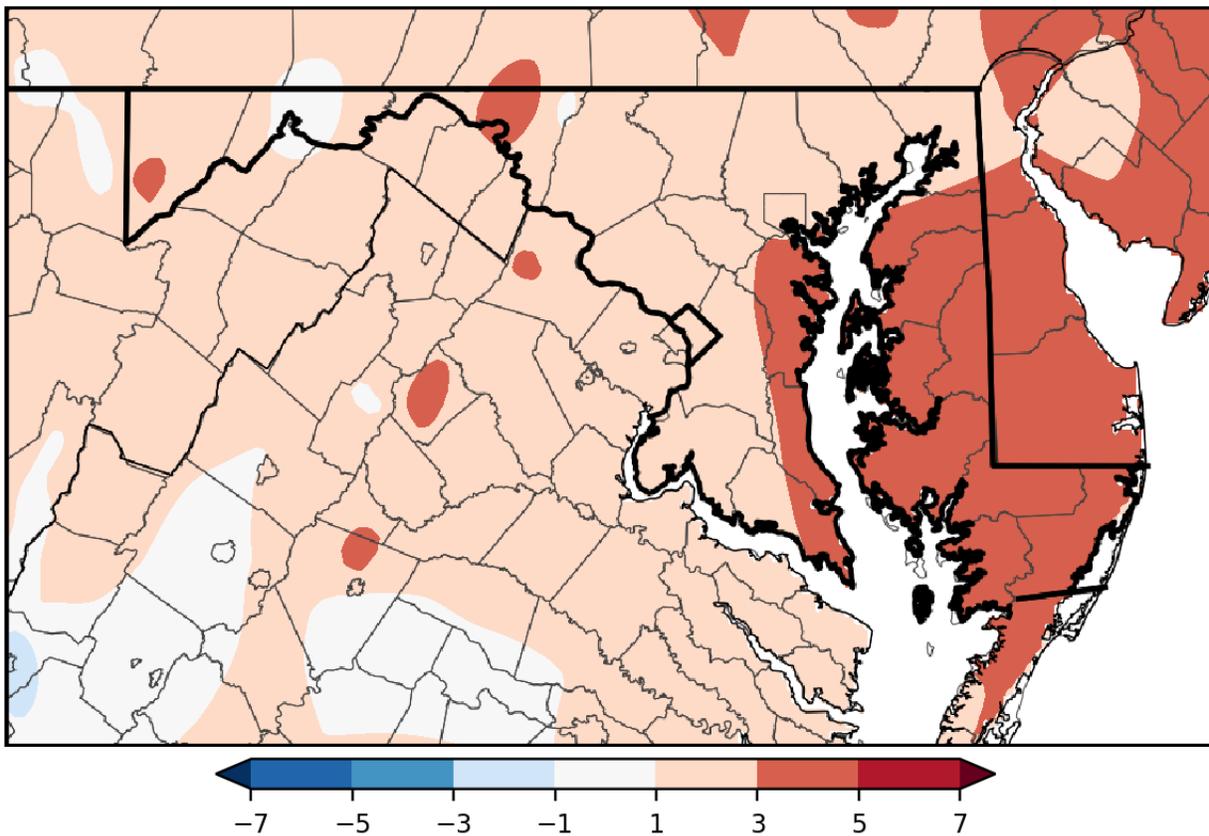


Figure 3: August 2018 average temperature departure from normal for Maryland. (NRCC)

The official state average August temperature was 77.2 °F, 0.8 °F warmer than last month and 4.4 °F cooler than in August 2017, but 2.8 °F warmer than the 1981-2010 average, making it the 122nd coolest August in the 124-year period of record (tied with 2002). It was the warmest August since 2016 (Table 2). Above average temperatures were observed commonly in the state, except for a few small areas where average conditions were observed (Figure 3). The state's highest and lowest daily temperatures ranged from 95 °F on August 30th at the Aberdeen Phillips Field, to 67 °F on August 24th at Frostburg 2 in Allegany County. Based on the historical records, the state average August temperature showed a positive long-term trend of 0.2 °F per decade since 1895. The highest and lowest monthly state August average temperatures ranged from 78.0 °F in 2016 to 68.2 °F in 1927 (Figure 4).

Maryland, Average Temperature, August

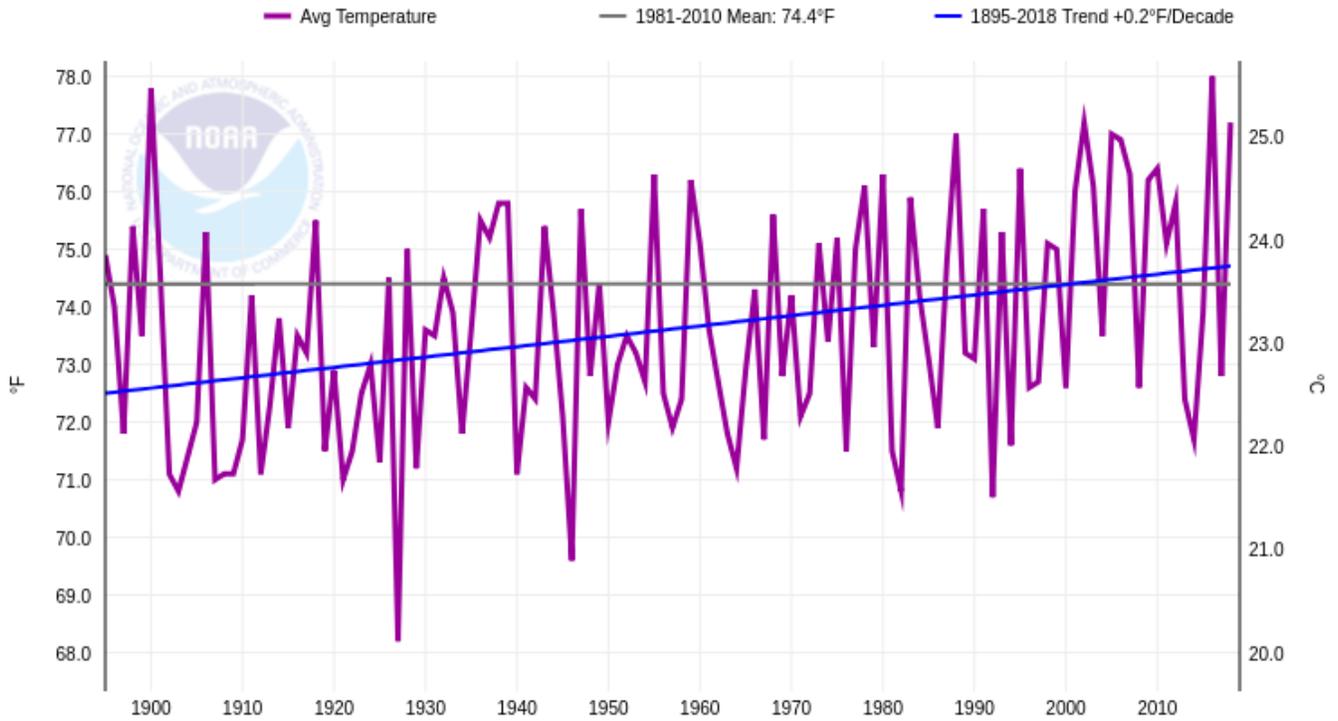


Figure 4: Historical August temperature time series for Maryland.

August Temperature Statistics (124 Years)

Record High: 78.0 °F in 2016	August 2018 value: 77.2 °F
Record Low: 68.2 °F in 1927	1981-2010 average: 74.4 °F
Trend: 0.2 °F per decade	Anomaly: 2.8 °F
Rank: 122 nd warmest	Warmest since: 2016
2 nd coolest	Coolest Since: 1927

Table 2: Maryland August Temperature Statistics



Maryland Monthly Climate Summary

MARYLAND STATE CLIMATOLOGIST OFFICE

August 2018 Volume: 01, No: 7

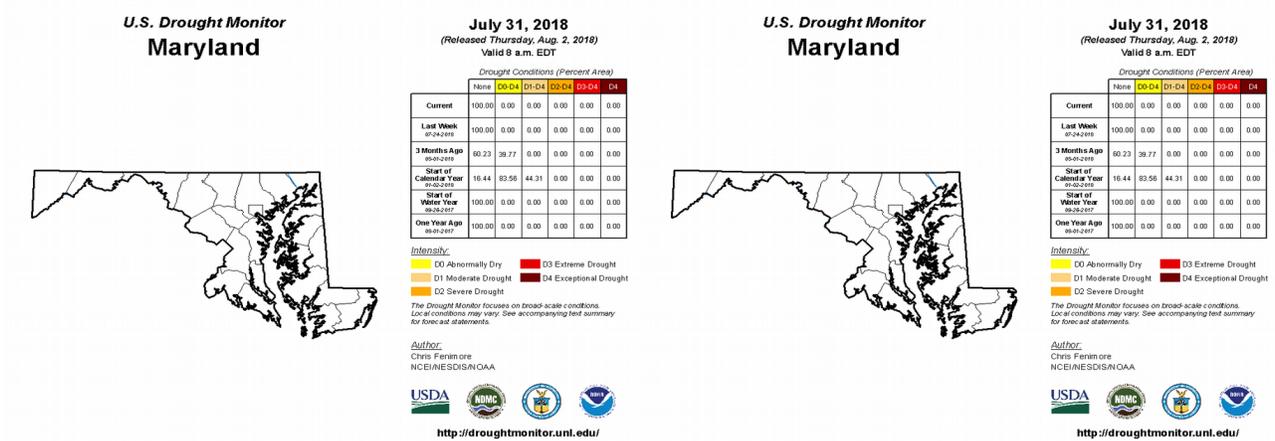


Figure 5: Drought Monitor map comparison for Maryland at the beginning (left) and end (right) of August 2018.

Drought Monitor (DM): Maryland experienced no drought in the month of August. 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 42 significant storm events in August. Table 3 summarizes the number of tornado (0), hail (2) and damaging wind (40) reports in August, while Figure 6 geographically displays the locations of these storm reports.

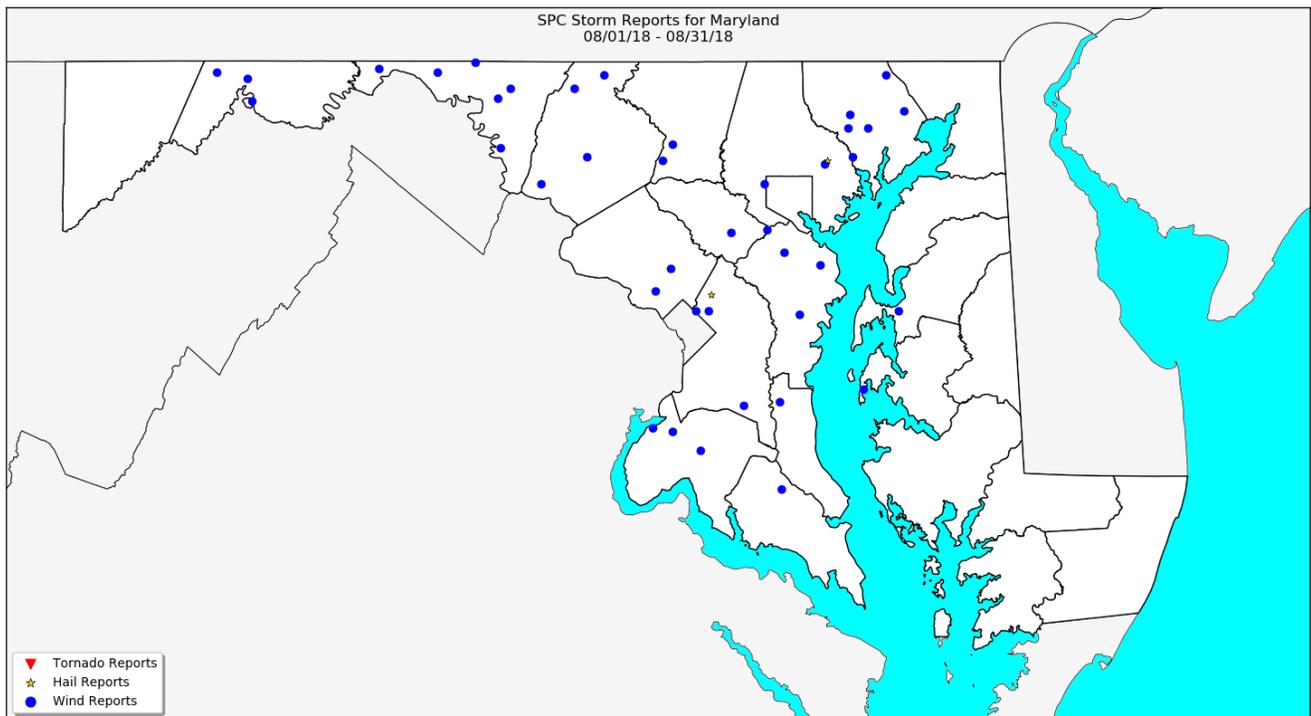


Figure 6: Map of August 2018 Maryland storm events (red: tornado, blue:wind, green:hail).

Category	Number of Reports
Tornado reports	0
Hail reports	2
Wind reports	40
Total	42

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