

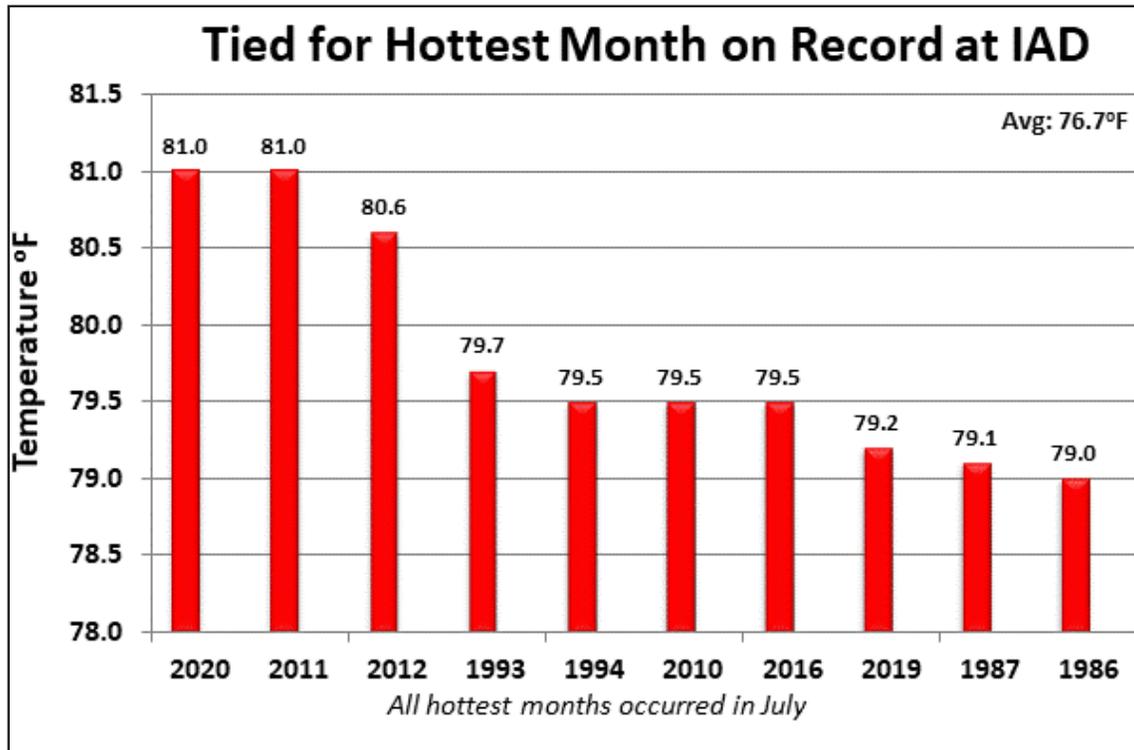


# PRESTO

PRECipitation Summary and Temperature Observations  
For the Washington, DC and Baltimore, MD Area



## JULY 2020: Record-Breaking Heat, Varied Precipitation, Frequent Severe Weather



### July Highlights

- Well above normal temperatures: DCA, 83.9°F (+4.1°F), BWI, 82.6°F (+5.6°F) and IAD, 81.0°F (+4.3°F).
- Scattered rainfall resulted in a wide range of totals: DCA, 6.51" (+2.78"); BWI, 3.43" (-0.64") and IAD, 4.85" (+1.18").
- Severe weather in Anne Arundel and St. Mary's counties, MD, and Albemarle, VA, on the 1<sup>st</sup> with damaging winds and hail up to golf ball size reported in Anne Arundel county.
- On the 6<sup>th</sup> and 7<sup>th</sup>, there were 87 local storm reports of damaging winds, hail and flooding across much of the area, including 1 inch hail near Baltimore and a 69 mph wind gust at Bolling AFB in southeast D.C. On the 7<sup>th</sup>, record daily rainfall at DCA with 2.04"; Brandywine, (Prince George's County), MD, was drenched with 8.36".
- Damaging winds and large hail on the 16<sup>th</sup> across western Maryland and neighboring West Virginia including 1.50" inch hail in Allegheny County, MD
- On the 19<sup>th</sup>, IAD set a record high temperature of 98°F and on the 20<sup>th</sup>, a record high minimum of 75°F
- Severe weather on the 21<sup>st</sup> resulted in 43 local storm reports, primarily wind damage with a few hail reports, including 1" hail in La Plata, (Charles County), MD, and numerous trees down near Harrisonburg, (Rockingham County), VA
- On the 22<sup>nd</sup>, more severe weather resulted in 131 storm reports, nearly 100 of those reports were downed trees from damaging winds
- The next day, the 23<sup>rd</sup>, 58 mph wind gusts were measured at Andrews Air Force Base in Maryland
- IAD set a daily rainfall record on the 24<sup>th</sup>, 0.86"
- On the 28<sup>th</sup>, there were 31 local storm reports including a 66 mph gust at a Potomac River buoy at Swan Point, MD
- Finally, on the 30<sup>th</sup>-31<sup>st</sup>, 55 local storm reports were filed, mostly reporting damaging winds

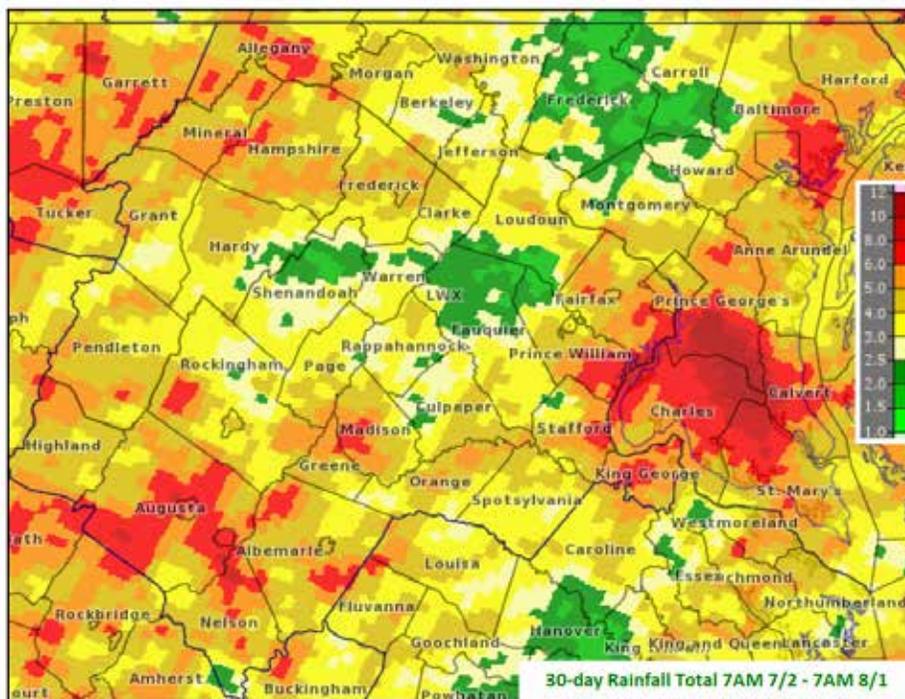
## July 2020

**Temperature:** July 2020 will be remembered as one of the hottest on record across much of the area: DCA, 83.9°F (+4.1°F), BWI, 82.6°F (+5.6°F) and IAD, 81.0°F (+4.3°F). BWI set a record for the warmest July and warmest month on record with a monthly average temperature of 82.6°F despite not setting any temperature records during the month. The previous monthly record was 81.7°F set in July 2011. IAD tied with July 2011 for its warmest July and warmest all time monthly temperature with an average of 81.0°F. A record high temperature of 98°F was set at Dulles on the 19<sup>th</sup> while a record high minimum temperature of 75°F was set on the 20<sup>th</sup>. DCA had its 3<sup>rd</sup> warmest July on record with a monthly average temperature of 83.9°F. There were no monthly temperature records set at DCA during July.

**Precipitation:** Like June, July rainfall reflected localized thunderstorms leaving some areas below normal and some well above: DCA, 6.51" (+2.78"); BWI, 3.43" (-0.64") and IAD, 4.85" (+1.18"). Areas near D.C. and Baltimore and east received well above normal rainfall and areas west of the metro areas reached moderate drought stage. The driest areas were around Frederick and Hagerstown, MD, and in the Shenandoah Valley of Virginia and West Virginia. Rainfall in these areas generally was between 1"-2". East and south of D.C. was much wetter. The La Plata, (Charles County), MD, area recorded over 12" for the month. Near Charlotte Hall (St. Mary's County), MD, 13.95" was recorded. One of the most significant rainfall events occurred on July 7, when 8.36" was measured near Brandywine (Prince George's County), MD.

In contrast, minor to moderate drought conditions set up during July in areas west of the metro area, continuing dry weather in these areas from June. New Market, (Frederick County), MD, only reported 0.96" for the month. As of July 30, areas with moderate drought conditions in Maryland included parts of Washington, Frederick, and Carroll counties and in Virginia, parts of Clarke, Culpepper, Fauquier, Loudoun, Orange, Rappahannock, Spotsylvania, Stafford, and Warren counties as well as Fredericksburg City.

There was also frequent severe weather. (See highlights.)



### July 2020 Weather Statistics for the Washington/Baltimore Area

Location	Station Temperatures (°F)					Extreme/Day		Precipitation (inches)			
	AvMx	AvMin	AvgT	NmIT	DepNml	Max	Min	Total	Nml	DepNml	Year to Date
National (DCA)	92.7	75.0	83.9	79.8	+4.1	99/19,20	71/7,13	6.51	3.73	+2.78	27.12
Baltimore (BWI)	92.7	72.5	82.6	77.0	+5.6	100/19,20	67/15	3.43	4.07	-0.64	25.80
Dulles (IAD)	91.8	70.1	81.0	76.7	+4.3	99/20	62/15	4.85	3.67	+1.18	26.58

**A Hot August?** June and July recorded above normal average temperatures in Washington. Will DCA continue the trend in the final month of climatological summer? Below is a look back below at the most recent 10 years when both June and July featured above normal readings at DCA and the corresponding August monthly departures.

Last 10 Years with Above Normal Average June and July Temperatures at DCA										
Month/Avg Temp	2020	2019	2018	2017	2016	2015	2013	2012	2011	2010
June/75.2°F	77.0	76.4	76.2	77.3	76.2	78.1	76.5	76.3	78.8	80.6
July/79.8°F	83.9	82.1	80.7	81.7	82.7	81.5	81.2	84.0	84.5	83.1
August/78.1°F	?	80.1	81.0	77.4	82.7	79.3	77.1	81.0	79.9	80.1