

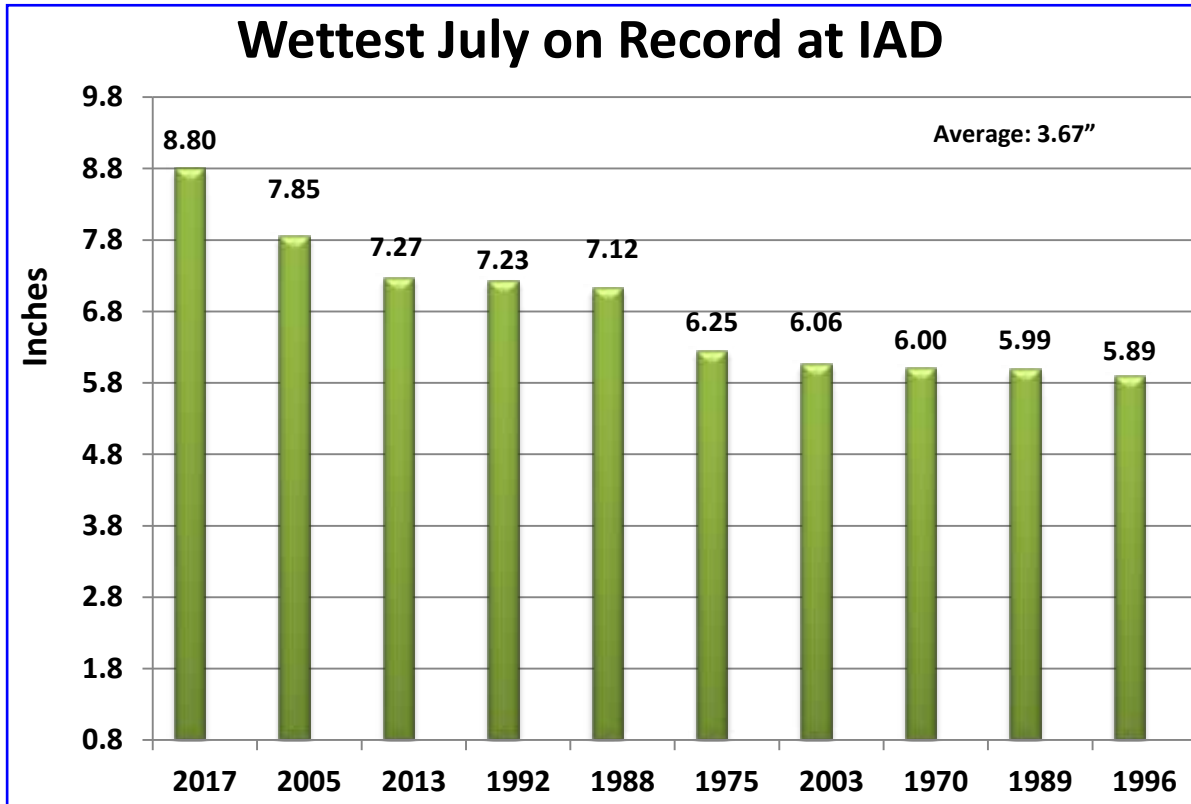


# PRESTO

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



## JULY 2017: Excessively Wet and Stormy; Above Normal Temperatures



### July Highlights

- ☀ Above normal temperatures at all three airports: DCA, +1.9°F; BWI, +1.7°F; IAD, 1.1°F; 13<sup>th</sup> month in the past 14 with above normal temperatures.
- ☀ DCA recorded 20 days with maximum readings at or above 90°F and 7 days at or above 95°F, including 4 consecutive days from 19<sup>th</sup>-22<sup>nd</sup>
- ☀ Well above to record rainfall amounts: DCA, 9.15" (+5.42"); BWI, 7.11" (+3.04"); IAD, 8.80" (+5.13"). It was the wettest July on record at IAD (see graphic); at DCA, it was wettest July since 1969 at DCA and 7<sup>th</sup> wettest on record; BWI observed its wettest July since 2005
- ☀ On the 28<sup>th</sup>-29<sup>th</sup>, the area was deluged with 3–7+'' of rainfall, flooding roads and leading to numerous water rescues. Highest rainfall totals in Maryland included 7.52'' in Severn (Anne Arundel County), and 6.88'' in Kensington (Montgomery County). In Virginia, 7.18'' was reported in Falls Church (Fairfax County) and 4.97'' in Ballston (Arlington County). In D.C., the National Arboretum measured 4.80''. DCA set a calendar day rainfall record on the 28<sup>th</sup> (3.31''), only the 2<sup>nd</sup> such record in July since 1978; BWI also set a calendar day rainfall record of 2.58''
- ☀ Other significant rainfall events included the following: On the 5<sup>th</sup>, Ruckersville, 4.04'', Stanardsville, 3.02'', both in Greene County, VA; 6<sup>th</sup>, 5.15'' in Arcola (Loudoun County), 3.90'' and Lake Ridge (Fairfax County), VA, and 3.86'' in California (St. Mary's County), MD; 23<sup>rd</sup>, Aberdeen 4.61'', (Harford County) and 4.00'' in Burtonsville (Montgomery County).

## July 2017

**Temperature:** Above normal monthly temperatures: DCA, +1.9°F; BWI, +1.7°F; IAD, 1.1°F. It was the 13<sup>th</sup> month in the past 14 with above normal temperatures at all three airports. While the month featured numerous days of heat and humidity, the area did not break 100°F. DCA recorded 20 days with maximum readings at or above 90°F and 7 days at or above 95°F, including 4 consecutive days: 19<sup>th</sup>-22<sup>nd</sup>. BWI reported 14 days at or above 90°F and 3 days at or above 95°F. IAD recorded 13 days with highs at or above 90°F. DCA recorded 11 minimum temperatures at or above 75°F, including a sultry 81°F on the 21<sup>st</sup>. A minimum of 79°F on the 13<sup>th</sup> set a new record and a minimum of 77°F on the 12<sup>th</sup> equaled a record. IAD tied a record at 72°F for a high minimum on the 1<sup>st</sup>. On a refreshing note, minimum readings fell into the 50s in suburban locations on the 30<sup>th</sup> and 31<sup>st</sup>, including 56°F at IAD and 58°F at BWI.

**Precipitation:** The area received well above to record rainfall: DCA, 9.15" (+5.42"); BWI, 7.11" (+3.04"), IAD, 8.80" (+5.13"). It was the wettest July on record at IAD (see graphic). DCA marked its wettest July since 1969 and 7<sup>th</sup> wettest on record; BWI observed its wettest July since 2005. The month's largest rainfall event occurred on the 28<sup>th</sup>-29<sup>th</sup> when torrential downpours soaked the region with most locations reporting 3-7+" of rain. The rain flooded roads and led to numerous water rescues. Multiple vehicles were trapped in high water in Wheaton (Montgomery County), MD; road closures were reported in Langley Park (Prince Georges County), MD, on Beach Drive in D.C. and in Merrifield (Fairfax County), VA. A water damaged wall collapsed at an apartment complex in D.C. and a water spout was observed near Plum Point, MD. Highest rainfall totals in Maryland included 7.52" in Severn (Anne Arundel County) and 6.88" in Kensington (Montgomery County). In Virginia, 7.18" was reported in Falls Church (Fairfax County) and 4.97" in Ballston (Arlington County). In D.C., the National Arboretum measured 4.80". DCA set a calendar day rainfall record on the 28<sup>th</sup> of 3.31", only the 2<sup>nd</sup> calendar day record rainfall in July since 1978. BWI also set a calendar day rainfall record of 2.58".

The month featured numerous other storms. On the 1<sup>st</sup>, a fast moving line of thunderstorms caused a tree limb to fall on a house in College Park (Prince Georges County), MD, and a downed tree blocked roads in Clifton (Fairfax County), VA. On the 5<sup>th</sup>, localized storms closed roads in Greene County, VA; rainfall totals included 4.04" in Ruckersville and 3.02" in Stanardsville. The next day, torrential downpours flooded roads in Fairfax and Loudoun counties, VA, as well as in Southern Maryland. Rainfall totals included 5.15" in Arcola (Loudoun County), 3.90" in Lake Ridge (Fairfax County) and 3.86" in California (St. Mary's County). Calendar day rainfall records were set at IAD (1.68") and BWI (1.54").

On the 14<sup>th</sup>, thunderstorm winds downed trees in Delaplane (Fauquier County), and Alexandria and Vienna (Fairfax County), VA. Rainfall was heavy in some areas including 1.66" in Rixeyville (Culpeper County), VA. On the 15<sup>th</sup>, a waterspout was observed over the Chester River near Lover Point, MD. On the 17<sup>th</sup>, localized storms flooded roads and 1" hail struck Laytonsville, while 2.62 soaked Gaithersburg, (Montgomery County). A localized storm hit IAD the next day with a calendar day record 1.66" of rain and wind gusts to 50 mph.

On the 22<sup>nd</sup>, one person was injured when damaging thunderstorm winds caused a tree to fall on a car in Harpers Ferry (Washington County), MD; trees were downed and tents blown over at the Orange County Fair in Madison Run, VA. Rainfall totals for the event included 2.16" in Oxon Hill (Prince Georges County). Finally, on the 23<sup>rd</sup>, localized flash flooding trapped vehicles in Aberdeen (Harford County), MD. Rainfall totals included 4.61" in Scarboro (Harford County), VA, and 4.00" in Burtonsville (Montgomery County), MD.

### July 2017 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)	90.0	73.4	81.7	79.8	+1.9	98/20	63/30	9.15	3.73	+5.42	25.07
Baltimore (BWI)	88.5	68.9	78.7	77.0	+1.7	98/20	58/31	7.11	4.07	+3.04	25.64
Dulles (IAD)	87.7	67.8	77.7	76.7	+1.1	94/13,14	57/30,31	8.80	3.67	+5.13	29.17

**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										
Year/Avg Temp	2017	2016	2015	2013	2012	2011	2010	2008	2005	2002
June/75.2°F	77.3	76.2	78.1	76.5	76.3	78.8	80.6	80.6	75.7	76.1
July/79.8°F	81.7	82.7	81.5	81.2	84.0	84.3	83.1	83.1	80.5	80.9
August/78.1°F	?	79.4	79.3	77.1	81.0	80	80.2	80.2	80.1	81.1