

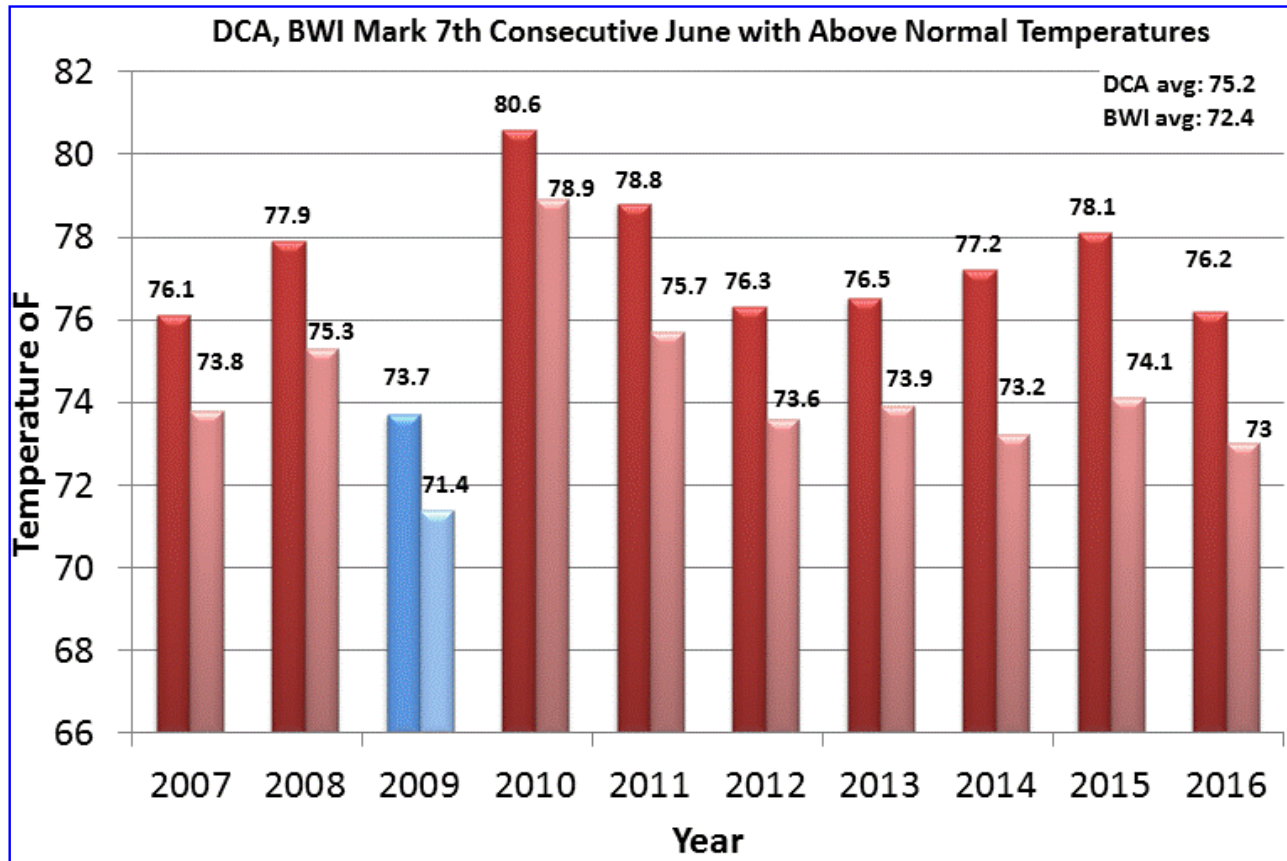


# PRESTO

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



## JUNE 2016: Numerous Severe Weather Events, Near Normal Temperatures



### June Highlights

- ✦ Above normal temperatures for the 7<sup>th</sup> consecutive June at DCA and BWI; 9<sup>th</sup> year in the past 10
- ✦ The month's hottest day, 11<sup>th</sup>, maximum temperatures soared to 96°F at DCA and BWI, record 95°F at IAD
- ✦ Below normal rainfall at DCA (-0.10"), and BWI (-0.26"), while IAD marked it third wettest June in past 10 years (6.35")
- ✦ On the 16<sup>th</sup>, thunderstorms struck Northern Virginia with wind and hail: Mount Weather (Clark County), VA, reported straight line winds estimated at 70-80 mph. Dozens of trees were uprooted and vehicles were dented from golf-ball size hail; high winds snapped a 40-foot pine tree near Opal (Fauquier County); Bluemont (Loudoun County) observed 2.75" (baseball size) and near Haymarket (Prince William County), 2.0" hail; tree fell on power lines in Great Falls (Fairfax County). Torrential rainfall occurred in many areas including a calendar day record of 2.82" at IAD and 2.72" near Leesburg (Loudoun County)
- ✦ On the 21<sup>st</sup>, severe thunderstorms spawned an EF-0 long track tornado across west central Howard County, MD. Maximum wind speeds were estimated at 80 mph, with a maximum path width of 500 yards and length of 12.75 miles, causing tree and property damage. Hail was measured at 1.50" near Clarksburg (Montgomery County), MD, and 1.25" near Reston (Fairfax County), VA. Deluges of water cascaded down the escalators of the Cleveland Park Metro Station in D.C., closing the station. Rainfall totals included 3.38" in Damascus (Montgomery County), MD, and 2.81" near Annapolis (Ann Arundel County), MD.
- ✦ On the 28<sup>th</sup>, thunderstorm winds downed wires in Fredericksburg, VA; a parking garage roof was damaged by high winds near College Park (Prince Georges County), MD. Flash flooding closed roads near Spotsylvania, VA, and Roseville (Stafford County), VA. Highest rainfall amounts were 2.18" near Fredericksburg (Spotsylvania County) and 1.55" near Silver Spring, (Montgomery County), MD

## June 2016

**Temperatures:** The first month of meteorological summer featured slightly above normal temperatures at the three major airports: DCA, +1.0°F; BWI, +0.6°F; and IAD, +0.7°F. The month marked the 7<sup>th</sup> consecutive June with above normal temperatures at DCA and BWI (see graphic) and the 9<sup>th</sup> year in the past 10. The season's first mini heat wave occurred from the 19<sup>th</sup>-21<sup>st</sup> when DCA and BWI reported readings at or above 90°F. The month's hottest day was the 11<sup>th</sup> when maximum temperatures soared to 96°F at DCA and BWI and to a daily record high of 95°F at IAD; but it was the only day during the month when temperatures exceeded or reached 95°F. Maximum temperatures hit or topped 90°F on only 5 days at DCA and BWI and on just 2 days at IAD, fewest since 2009. DCA's daily maximum temperatures consistently reached the 80s except for 8<sup>th</sup> when it only reached 74°F. IAD set a new high minimum record of 70°F on the 3-4<sup>th</sup> and tied a record high minimum of 68°F on the 5<sup>th</sup>.

The coolest minimum readings occurred on the 9<sup>th</sup> when suburban locations dropped to the 40s, including 46°F at BWI and 47°F at IAD.

**Precipitation:** Following a normal summer pattern, precipitation varied widely in the area: DCA, 3.68" (-0.10"); and BWI, 3.20" (-0.26"); were slightly below normal, while IAD was well above: 6.35" (+2.35") , marking its 3<sup>rd</sup> wettest June in the past 10 years.

Severe weather events impacted the region throughout the month. On the 2<sup>nd</sup> and 4<sup>th</sup>, torrential downpours flooded roads and creeks across portions of the Shenandoah. A stream gauge on Muddy Creek in Rockingham County, VA, on the 4<sup>th</sup> rose above flood stage, threatening livestock and a barn; a stream gauge on Smith Creek in Shenandoah County crested 2.3 ft. above stage resulting in widespread agricultural flooding. Rainfall totals in Augusta County were 3.08" near Weyers Cave on the 4<sup>th</sup> and 2.79" near Stuarts Draft on the 2<sup>nd</sup>. On the 5<sup>th</sup> and 8<sup>th</sup>, damaging thunderstorm winds struck parts of Maryland: on the 5<sup>th</sup>, trees and wires were downed on Brink Road near Montgomery Village (Montgomery County) while on the 8<sup>th</sup> a tree landed on a truck at Johns Hopkins University in Baltimore City.

More widespread severe weather occurred on the 16<sup>th</sup>, 21<sup>th</sup> and 28<sup>th</sup>. The event on the 16<sup>th</sup> mainly affected Virginia and portions of southern Maryland. Mount Weather (Clark County), VA, reported wind and hail damage from straight line winds estimated at 70-80 mph. Dozens of trees were uprooted and some vehicles were dented from golf-ball size hail. High winds snapped a 40-foot tall pine tree near Opal (Fauquier County); hail as large as 2.75" (baseball size) struck near Bluemont (Loudoun County) and up to 2.0" hail was measured near Haymarket (Prince William County). A tree fell on power lines in Great Falls (Fairfax County). Torrential rainfall occurred in many areas including a calendar day record of 2.82" at IAD and 2.72" near Leesburg (Loudoun County).

On the afternoon of the 21<sup>st</sup>, severe thunderstorms spawned an EF-0 long track tornado across west central Howard County, MD. Maximum wind speeds were estimated at 80 mph, with a maximum path width of 500 yards and path length of 12.75 miles. The tornado caused tree and property damage but no injuries. Hail was measured at 1.50" near Clarksburg (Montgomery County) and 1.25" near Reston (Fairfax County), VA. Rain caused deluges of water to cascade down the escalators and floors of the Cleveland Park Metro Station in D.C., closing the station. Rainfall totals included 3.38" in Damascus (Montgomery County) and 2.81" near Annapolis (Ann Arundel County).

Damaging thunderstorm winds during the month's final event on the 28<sup>th</sup> brought down wires in Fredericksburg, (Spotsylvania County) VA, and damaged a parking garage roof near College Park (Prince Georges County), MD. Flash flooding closed roads near Spotsylvania and near Roseville (Stafford County), VA. Highest rainfall totals were 2.18" near Fredericksburg and 1.55" near Silver Spring, (Montgomery County).

### June 2016 Weather Statistics for the Washington/Baltimore Area

Location	Station Temperatures (°F)					Extreme/Day		Precipitation (inches)			
	AvMx	AvMin	AvgT	NmlT	DepNml	Max	Min	Total	Nml	DepNml	Year to Date
National (DCA)	85.2	67.2	76.2	75.2	+1.0	96/11	53/9	3.68	3.78	-0.10	19.01
Baltimore (BWI)	83.8	62.2	73.0	72.4	+0.6	96/11	46/9	3.20	3.46	-0.26	21.05
Dulles (IAD)	83.9	62.3	73.1	72.4	+0.7	95/11	47/9	6.35	3.92	+2.37	24.02

**Looking Ahead to July:** With June behind us, what does mid-summer hold? Below are some noteworthy July statistics for DCA: Normal Average Temperature: 79.8°F; Normal Monthly Precipitation: 3.73".

#### DCA Temperature

**Hottest:** 2012 (High Temperature: 104°F)

**Coolest:** 1897 (Minimum Temperature: 43.0°F)

**Most 90°F+ days:** 25 (2011)

**Fewest 90°F+ days:** 0 (1891)

**Most 100°F+ days:** 7 (2012)

**Longest consecutive period of 90°F days:** 16 (July 3-18, 1993)

**Longest consecutive period of 100°F+ days:** 4 (July 19-22, 1930, July 5-8, 2012)

**Record monthly high:** 106°F (July 20, 1930, tied with August 6, 1918)

**Record monthly low:** 52°F (July 4, 1919 and July 31, 1895)

#### DCA Precipitation

**Wettest:** 1945 (Precipitation Total: 11.06")

**Driest:** 1872 (Precipitation Total: 0.82")

**Record daily rainfall:** 4.69" (July 9, 1970)