

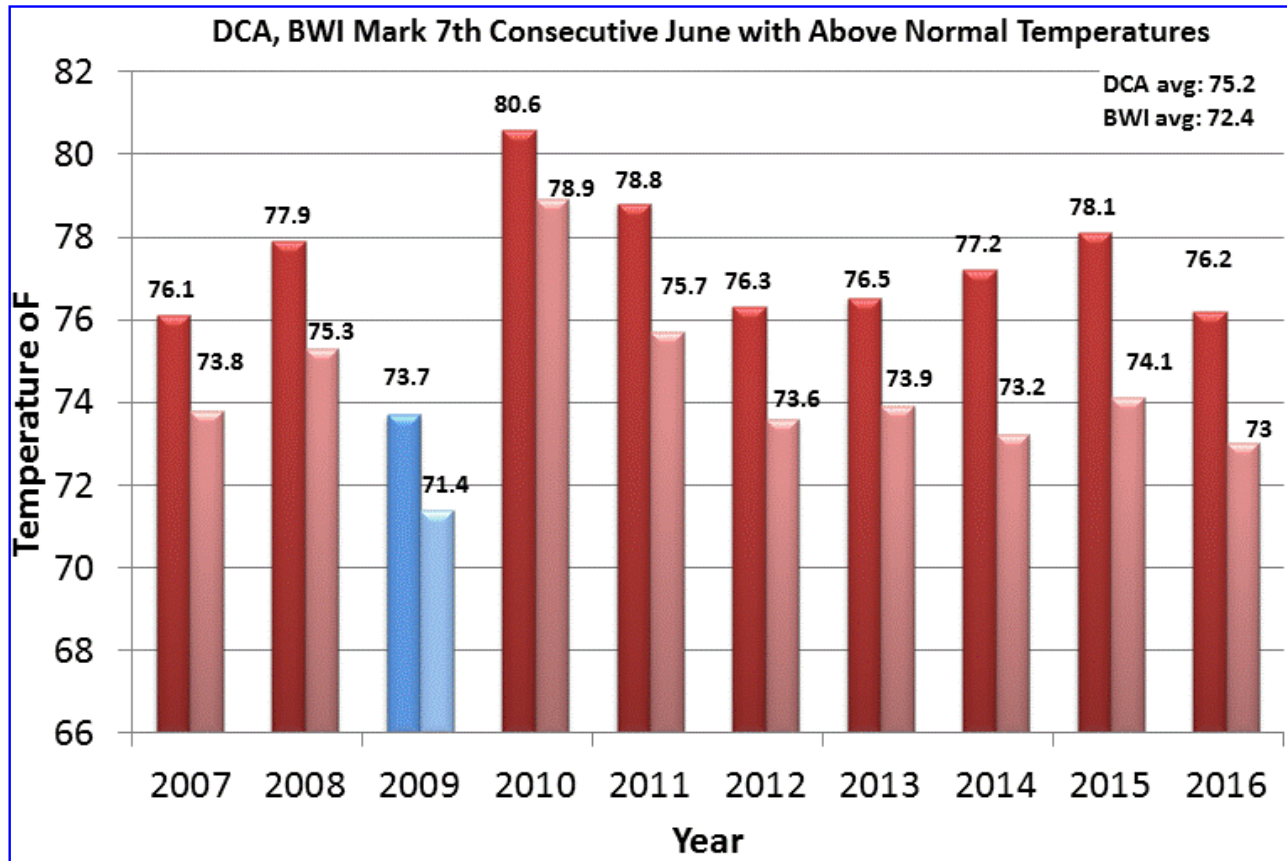


PRESTO

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 7th consecutive June at DCA and BWI; 9th year in the past 10
- ✦ The month's hottest day, 11th, 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 16th, 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 21st, 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 28th, 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 7th consecutive June with above normal temperatures at DCA and BWI (see graphic) and the 9th year in the past 10. The season's first mini heat wave occurred from the 19th-21st when DCA and BWI reported readings at or above 90°F. The month's hottest day was the 11th 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 8th when it only reached 74°F. IAD set a new high minimum record of 70°F on the 3-4th and tied a record high minimum of 68°F on the 5th.

The coolest minimum readings occurred on the 9th 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 3rd wettest June in the past 10 years.

Severe weather events impacted the region throughout the month. On the 2nd and 4th, torrential downpours flooded roads and creeks across portions of the Shenandoah. A stream gauge on Muddy Creek in Rockingham County, VA, on the 4th 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 4th and 2.79" near Stuarts Draft on the 2nd. On the 5th and 8th, damaging thunderstorm winds struck parts of Maryland: on the 5th, trees and wires were downed on Brink Road near Montgomery Village (Montgomery County) while on the 8th a tree landed on a truck at Johns Hopkins University in Baltimore City.

More widespread severe weather occurred on the 16th, 21th and 28th. The event on the 16th 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 21st, 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 28th 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)

Coollest: 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)