

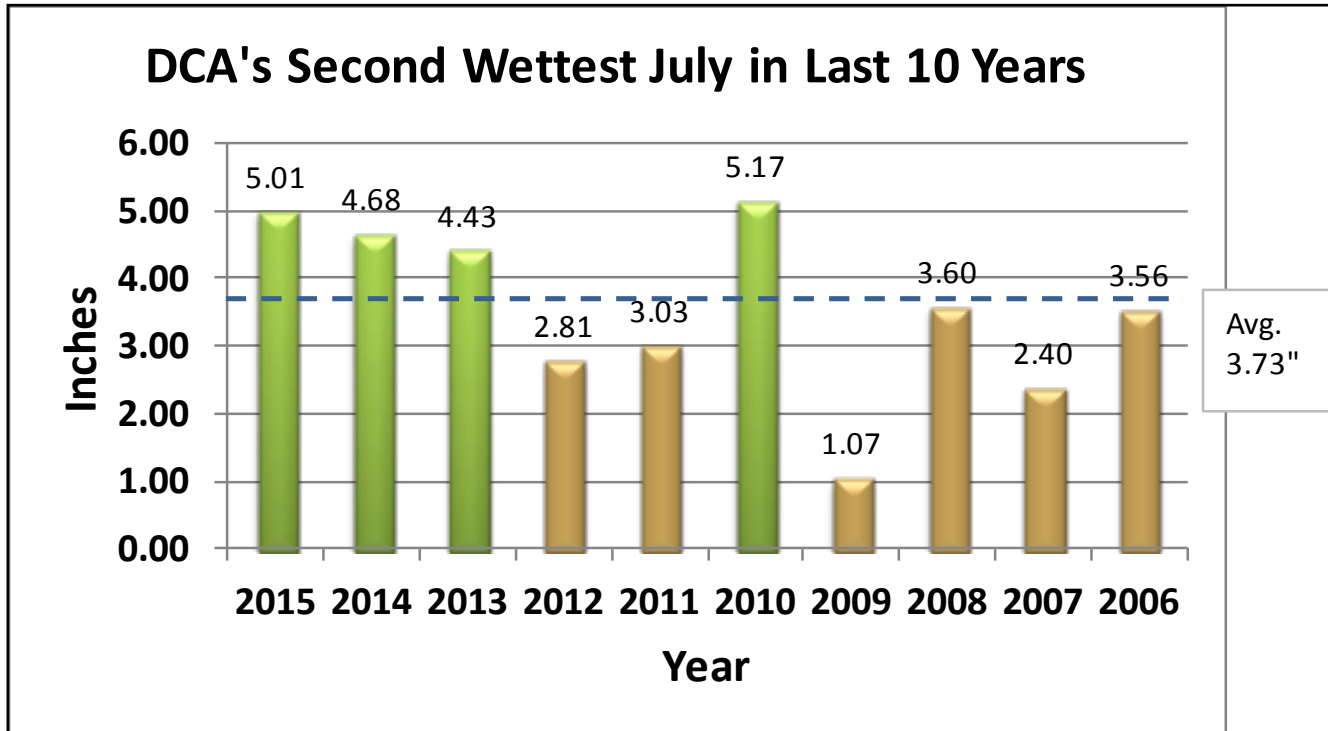


PRESTO

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



JULY 2015: Above Normal Temperatures in Washington; Numerous Strong Storms Across Region



July Highlights

- ⚡ Average temperature varied from above normal to below normal across the area: DCA, +1.7°F; BWI, 0.0; IAD, -0.7°F
- ⚡ The month's most intense heat occurred on the 19th-20th with highs of 98°F and 97°F at DCA, 97°F and 95°F at BWI, and 94°F and 92°F at IAD
- ⚡ DCA recorded 14 days with minimums at or above 75°F including a record 82°F on the 20th
- ⚡ Rainfall also was variable: DCA, 5.01" (+1.28"), IAD, 4.89" (+1.22"); BWI: 3.49" (-0.58")
- ⚡ After midnight on the 1st, an intense line of damaging thunderstorm winds knocked down trees through a wide swath of Fairfax and Arlington counties in Virginia; and Washington, Prince Georges and Baltimore counties in Maryland. Rainfall totals included 2.35" near Bowie (Prince Georges County), MD; and 2.06" near Lorton (Fairfax County), VA; DCA recorded 1.30", along with a wind gust to 51 mph
- ⚡ A week later on the evening of the 8th, an east-west line of training thunderstorms soaked Northern Virginia, Washington and Prince Georges County, MD, with totals up to 2.94" near Oak Hill and Chantilly (Fairfax County), VA; 2.23" near Andrew Air Force Base and Camp Springs (Prince Georges County), MD; 1.60" at IAD; and 1.12" at DCA
- ⚡ On the 30th, strong thunderstorm winds blew down trees in Washington near the National Zoo, Chevy Chase Village, and near Kenilworth Avenue with rainfall totalling 1.41" in Northwest DC, 1.28" at BWI, and a daily record of 1.15" at IAD

July 2015

Temperatures: Monthly average temperatures varied from above normal at DCA, +1.7°F, to exactly normal at BWI and slightly below normal at IAD, -0.7°F. This year marked the 7th out of the past 10 years with above normal July readings at DCA. DCA recorded 90°F or greater each day from the 24th through month's end. The month's most intense heat occurred on the 19th-20th when highs reached 98°F and 97°F at DCA, 97°F and 95°F at BWI and 94°F and 92°F at IAD. DCA reported 14 days of 90°F or greater but BWI reported only 7 such days and IAD, just 3, fewest in July since 2004. Nights were uncomfortably warm in Washington; DCA recorded 14 days with minimums at or above 75°F. On the 20th, DCA's minimum of 82°F set a new record maximum minimum for the date; IAD's low temperature of 75°F equaled its warmest minimum.

Precipitation: Rainfall also varied between the airports due to the aerial extent and intensity of showers and thunderstorms. DCA was above normal, 5.01", (+1.28"), marking its 2nd wettest July in the past 10 years (see cover). IAD also was above normal, 4.89" (+1.22"), while BWI reported subnormal rainfall, 3.49" (-0.58").

Severe weather was common throughout the month. Soon after midnight on the 1st, an intense line of damaging thunderstorm winds knocked down trees through a wide swath of Fairfax and Arlington counties in Virginia; and Washington, Prince Georges County and Baltimore counties in Maryland. Rainfall totals included 2.35" near Bowie (Prince Georges County), MD; 2.06" near Lorton (Fairfax County), VA; and 1.30", with a wind gust to 51 mph, at DCA.

A week later on the 8th, an early evening east-west line of training thunderstorms soaked Northern Virginia and Prince Georges County, MD. The greatest rainfall totals were 2.94" near Oak Hill and Chantilly (Fairfax County), VA, 2.23" near Andrew Air Force Base and Camp Springs (Prince Georges County), MD, 1.60" at IAD and 1.12" at DCA.

As the month progressed, the storms became more isolated but still intense. On the 9th, thunderstorm winds downed trees near Crofton (Anne Arundel County), MD. On the morning of the 13th, 4.0" of torrential rainfall caused flash flooding in Woodstock (Shenandoah County), VA. Meanwhile on Smith Island, VA, a funnel cloud was reported with a possible waterspout photographed near Crisfield, MD. Several roads were flooded the following morning near Pleasant Hills (Harford County), MD, and near Hampton (Baltimore County), MD. Rainfall totals included 3.10" near Towson (Baltimore County), MD, and 2.51" near Rixeyville (Culpeper County), VA.

On the 15th, 1.0" hail struck Swift Run (Rockingham), VA, and near Nineveh (Warren County), VA; in Maryland, 1.48" was reported near Middletown (Frederick County).

In the early morning of the 27th, 24 trees were knocked down by thunderstorm winds near Brooklandville (Baltimore County), MD, with rainfall totalling 1.28" near Norrisville (Harford County), MD. Later in the day, additional strong thunderstorms winds gusted to 58 mph near Cherrydale (Arlington County), VA, with 1.20" of rainfall reported near Charlottesville (Albemarle County), VA.

On the 29th, heavy rainfall caused flash flooding near Cockeysville, MD, with 2.12" measured in Catonsville (Baltimore County), MD. The month's final event occurred on the 30th when strong thunderstorm winds blew down trees in Washington near the National Zoo, Chevy Chase Village, and near Kenilworth Avenue; rainfall totalled 1.41" in North-west DC, 1.28" at BWI and 1.15" at IAD, setting a new daily record there.

July 2015 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	Yr. to Date
National (DCA)	89.1	73.9	81.5	79.8	+1.7	98/19	66/3,16	5.01	3.73	+1.28	31.73
Baltimore (BWI)	86.5	67.6	77.0	77.0	0.0	97/19	58/24	3.49	4.07	-0.58	33.78
Dulles (IAD)	85.2	66.8	76.0	75.3	-0.7	94/19	58/24	4.89	3.67	+1.22	26.19

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	2015	2013	2012	2011	2010	2008	2005	2002	1994	1993
June/75.2°F	78.1	76.5	76.3	78.8	80.6	80.6	75.7	76.1	79.4	75.3
July/79.8°F	81.5	81.2	84.0	84.3	83.1	83.1	80.5	80.9	81.8	83.1
August/78.1°F	?	77.1	81.0	80	80.2	80.2	80.1	81.1	75.5	79.6