

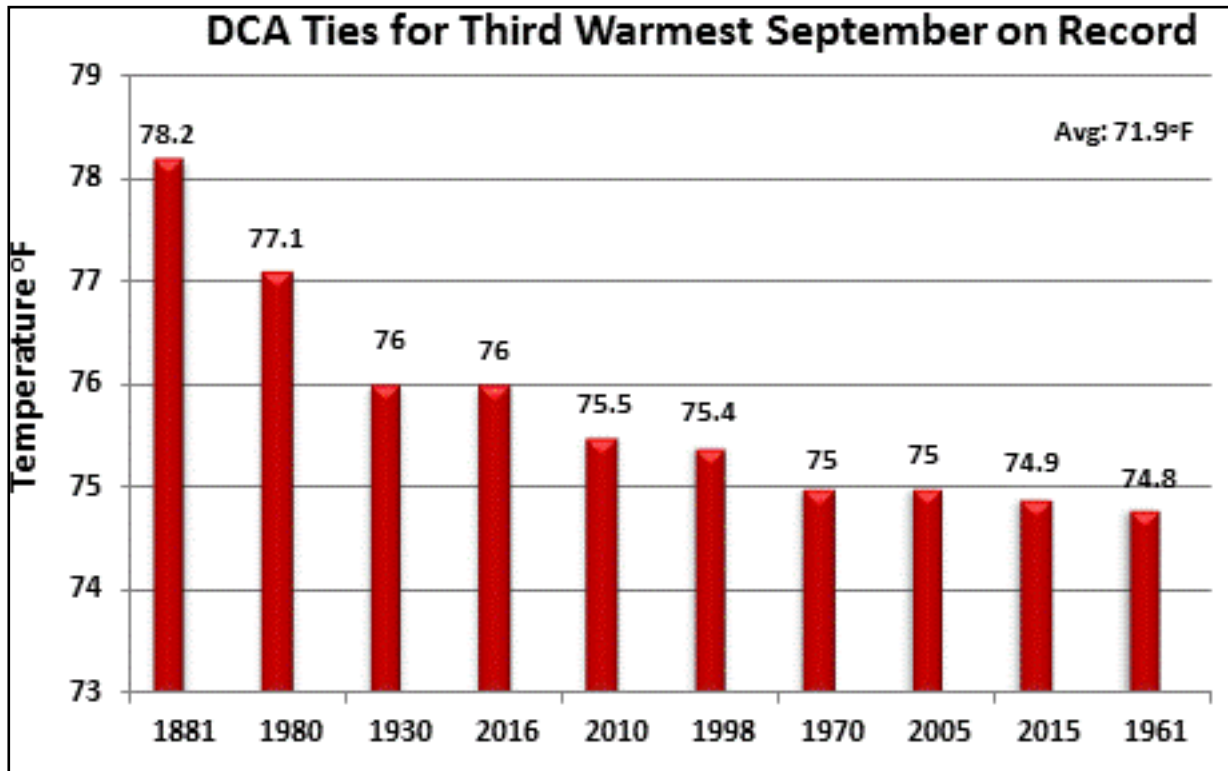


PRESTO

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



SEPTEMBER 2016: All-Time Hottest at IAD; Wet Finish to Dry Month



September Highlights

- Well above normal to record warmth: DCA, +5.0°F; BWI, +4.5°F; and IAD, +5.2°F
- DCA tied 1930 for the 3rd warmest September on record and warmest since 1980
- Record high temperatures throughout area: 95°F at DCA on 14th; 95°F at BWI on 9th and 96°F at IAD on the 8th
- At DCA and IAD, maximum readings were at or above 95°F from the 8th-10th, the first such occurrence in September since 1985. IAD's maximum reading at 98°F on the 9th was its hottest September day since 1983; BWI's maximum of 96°F on the 8th was its hottest day since 1991 and DCA's 98°F on the 8th, its hottest day since 2010
- Heavy rain fell across the area from the 28th-30th with widespread totals of 2"-5" and more than 7" in some locations. Thunderstorms accompanied the heavy rainfall, resulting in the death of one person on the afternoon of the 29th when a tree fell in a driveway the victim was standing in near Maurertown (Shenandoah), VA. Multiple trees were also uprooted from damaging thunderstorm winds near Port Tobacco Village (Charles County), MD. The copious rainfall resulted in road closures due to flooding across the area including portions of Sligo Creek Parkway in Takoma Park (Montgomery County), MD, and Burke Lake Road near Burke (Fairfax County), VA. Greatest amounts included 7.68" near Prince Frederick (Calvert County), VA, 7.43" near Mechanicsville (St. Mary's County), MD, and 7.04" in Winchester (Frederick County), VA.

September 2016

Temperatures: Well above normal to record warm temperatures across the area: DCA, +5.0°F; BWI, +4.5°F; and IAD, +5.2°F, resulting in above normal September temperatures for the 7th consecutive year at DCA. The month tied for the 3rd hottest September in DCA's 145 years history (see graphic) and warmest since 1980; it was the hottest September on record in IAD's 53 year history, with an average temperature of 73.1°F. IAD and DCA also reported their warmest average minimum reading on record, 63.5°F and 68.6°F, respectively.

The month featured a mid-summer like heat wave from the 6th-10th with highs well into the 90s. At DCA and IAD, maximum readings were at or above 95°F from the 8th-10th, the first such occurrence in September since 1985. IAD maximum reading at 98°F on the 9th was its hottest in September since 1983; BWI's maximum of 96°F on the 8th, its hottest since 1991 and DCA's 98°F on the 8th, the hottest since 2010.

Readings soared again into the 90s on the 14th at the three airports and included a daily record of 95°F at DCA. For the month, DCA either broke or tied three daily high minimum temperature records, BWI marked one such day and IAD, five. The year's final 90°F or greater readings at DCA, BWI and IAD occurred on the 23rd. For 2016, DCA reported 52 days at 90°F or greater, 36 at BWI and 40 at IAD.

Precipitation: Very dry conditions prevailed for the majority of the month, with monthly totals less than an inch until the 28th, when a long duration heavy rain event extended through month's end. Despite several days of rain, monthly totals remained below normal at DCA, 2.50" (-1.22"); and at IAD, 2.55" (-1.37"), while BWI reported slightly above normal amounts, 4.36" (+0.33").

The month actually began wet in portions of Northern Virginia with localized heavy rainfall on the 1st. Greatest amounts included 1.59" near Vienna (Fairfax County), VA. On the 3rd, winds gusted to 46 mph at Chesapeake Beach, (Calvert County), MD. On the 7th, strong to severe thunderstorms produced ¾" hail near American University in D.C., and in Casanova, (Fauquier), VA. Damaging winds knocked down trees onto power lines near Potomac, (Montgomery County), MD, and in Roseville, (Stafford County), VA. Rainfall totaled 1.84" near Gaithersburg (Montgomery County) and 1.33" near Fredericksburg (Spotsylvania), VA. On the 19th, many suburban areas received 1"-2"; greatest totals were in Southern Maryland: 4.25" near Patuxent River (Calvert County) and 4.22" in Lexington Park (St. Mary's County).

The month ended with a slow moving storm which brought copious moisture during the final 3 days; totals ranged from 2"-5" with more than 7" in some locations. Some areas also were impacted by thunderstorms, one of which resulted in the death of one person on the afternoon of the 29th when a falling tree resulted in the death on an individual in a driveway near Maurertown (Shenandoah), VA. Multiple trees were also uprooted from damaging thunderstorm winds near Port Tobacco Village (Charles County), MD. The heavy rain closed roads due to flooding across the area including portions of Sligo Creek Parkway in Takoma Park (Montgomery County) and Burke Lake Road near Burke (Fairfax County). Greatest amounts included 7.68" near Prince Frederick (Calvert County), MD, 7.43" near Mechanicsville (St. Mary's County), MD, and 7.04" in Winchester (Frederick County), VA.

September 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)	83.4	68.6	76.0	71.0	+5.0	98/8	59/25	2.50	3.72	-1.22	27.43
Baltimore (BWI)	81.7	62.9	72.3	67.8	+4.5	96/8,10	51/25,26	4.26	3.93	+0.33	35.46
Dulles (IAD)	82.7	63.5	73.1	67.9	+5.2	98/9	54/5,25	2.55	3.92	-1.37	30.55

Looking Ahead to October: The first freeze! October traditionally marks the first freeze in suburban locations. When will the Washington/Baltimore area record its first freeze in 2016? Below is a list of the first 32°F or lower readings at DCA and IAD in the last 10 years.

Year	First 32°F (or lower) reading		Year	First 32°F (or lower) reading	
	DCA	IAD		DCA	IAD
2015	November 23	October 18	2010	November 29	November 1
2014	November 15	November 8	2009	December 6	November 6
2013	November 13	October 25	2008	November 18	October 20
2012	November 26	October 13	2007	November 24	October 29
2011	December 10	October 30	2006	November 4	October 13

* Latest first frost at DCA: 12/22/01; at IAD, 11/11/05