

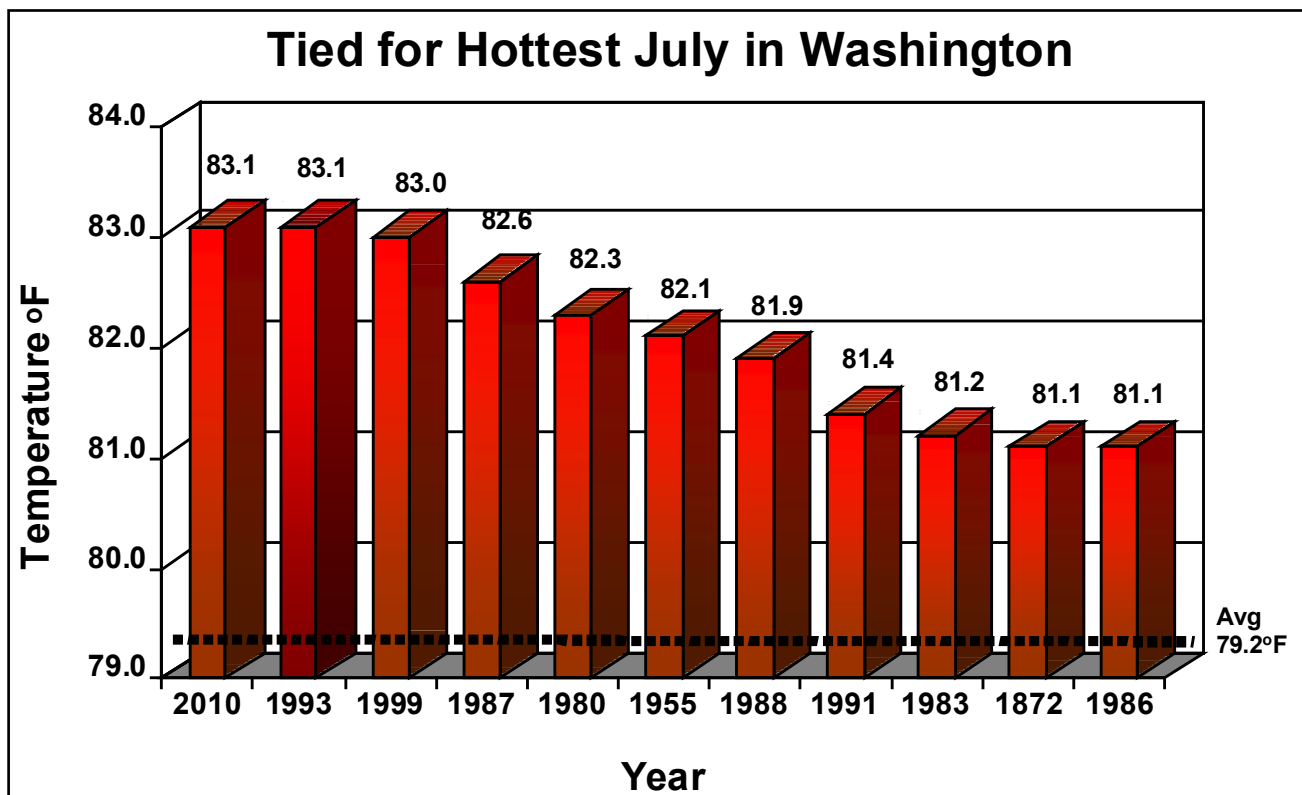


PRESTO

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



July: Record Heat, Stormy



July Highlights

- ✦ Tied for hottest month of all time in Washington (83.1°F) and at BWI (81.5°F)
- ✦ Positive monthly departures at all major airports: + 3.9°F at DCA, +5.0°F at BWI and +3.8°F at IAD
- ✦ DCA soared to a record 102°F on the 7th and 101°F on the 24th. BWI recorded record high temperatures on 4 days: 6th (105°F), 7th (101°F), 24th (101°F) and 25th (100°F)
- ✦ On the 6th, BWI soared to 105°F; 2nd hottest day ever in Baltimore (107°F, 7/10/36); at or above 100°F at BWI on 5 days, most on record
- ✦ At or above 90°F on 44 days in 2010 at DCA, most number of days through July on record
- ✦ On the 25th, damaging straight line thunderstorm winds with widespread gusts 60-75 mph and isolated gusts to 90 mph across parts of Fairfax and Loudoun Counties in Virginia and Montgomery, northern Prince Georges, Ann Arundel and Charles counties in Maryland and in D.C. The storm resulted in 3 deaths from wind and one from lightning, widespread damage from downed trees and power lines, and loss of power to more than 300,000 customers
- ✦ Above normal precipitation for first month since February at DCA (5.17") and since March at BWI (4.36")
- ✦ Thunderstorms produce 2"-4" of rain from 12th-14th causing some flash flooding
- ✦ Thunderstorm winds gusted to 72 mph at BWI late evening on 18th
- ✦ Weakened trees from severe thunderstorms on 25th caused additional damage on the 29th as strong winds and lightning knock down trees and wires, resulting in additional damage and major transportation delays

July 2010

Temperature: June's near unrelenting heat continued through July as the area experienced the second hottest July on record at Washington. Positive temperature departures were +3.9°F at DCA, +5.0°F at BWI and +3.8°F at IAD. The average monthly temperature in Washington equaled July 1993 as its hottest month ever (83.1°F); BWI also tied for the hottest July ever 81.5°F, equaling 1972 and 1995. IAD tied for 2nd hottest July: 79.5°F, just 0.2°F cooler than July 1993. BWI recorded 21 days with highs at or above 90°F, while DCA and IAD observed 20 such days. Record highs were set on numerous days. DCA soared to 102°F on the 7th and 101°F on the 24th. BWI recorded record high temperatures on 4 days: 6th (105°F), 7th (101°F), 24th (101°F) and 25th (100°F). IAD set high temperatures records on the 24th (99°F) and 25th (98°F) and equaled a daily record on the 7th, 101°F. BWI reached or exceeded the 100 mark on 5 days in July, the most ever observed. The 105°F on the 6th was BWI's 2nd hottest reading ever recorded. DCA was 100°F or higher on 3 days and IAD on 2 days.

Daily high minimum temperatures were also set on several days. DCA recorded 80°F on the 7th and 8th and 81°F on the 24th. BWI's record low of 82°F on the 24th was just 1°F short of its warmest minimum ever. IAD set new high minimum temperatures records on the 8th and 24th with a sultry low of 78°F. In sharp contrast, the first few days of the month observed pleasant readings and chilly overnight lows into the 50s at suburban locations, including 52°F at IAD on the 3rd.

Precipitation: Monthly rainfall totals varied across the area due to scattered showers and thunderstorms. The three major airports recorded above normal amounts: DCA, 5.17" (+1.51"); BWI, 4.36" (+0.51") and IAD, 4.17" (0.60"). The area was slammed on the 25th when severe thunderstorms with hurricane force gusts, up to 80-90 mph in spots, and 60-75 mph in widespread locations, resulted in four fatalities, widespread damage from downed trees and power lines and loss of power to 300,000 customers in the area. The hardest hit area were parts of Fairfax and Loudoun Counties in Virginia and Montgomery, northern Prince Georges (PG), Ann Arundel and Charles Counties in Maryland as well as D.C. Wind damage was widespread, including partial and complete roof damage to six buildings at an apartment complex just north of College Park, (PG County), MD. In addition, a large container crane bearing load force pushed an unsecured crane down a hill adjacent to the transfer station at Derwood, Montgomery County.

The month's heaviest rainfall occurred in many areas from thunderstorms on the 12th-14th. Totals for the 3-day event included 2.60" at DCA, 2.40" at BWI, and 1.18" at IAD. Severe thunderstorms accompanied these events. Trees were knocked onto wires near Mt. Airy (Carroll County), MD, on the 12th with tree damage in Dunkirk (Calvert County), MD, on the 13th. Flash flooding in the early morning hours on the 14th closed the left lane of the Capital Beltway near Annandale (Fairfax County), VA. Isolated severe storms impacted some locations in Maryland late evening into the overnight hours on the 18th-19th. BWI recorded wind gusts to 72 mph, while a gust measured up to 60 mph in White Marsh (Baltimore County), MD. A large tree was downed near the intersection of Macarthur Blvd. and Goldsboro Rd. in Glen Echo (Montgomery County), MD. The following day (19th), thunderstorm wind gusts reached 58 mph about 2 miles south of IAD.

The months' final severe weather occurred the afternoon of the 29th. A tree downed a wire onto the tracks in Silver Spring, Montgomery County, and caused major train delays and significant impacts to the transportation system in the metro area. Flash flooding was reported near Brooklyn Park, Baltimore City County, with 1.32" in Reisterstown and 1.27" in Rixeyville, Culpeper County.

JULY 2010 WEATHER STATISTICS FOR THE WASHINGTON/BALTIMORE AREA

Location	Station Temperatures (°F)					Extreme/Day		Precipitation (Inches)			
	AvMx	AvMn	AvgT	NmIT	DepNml	Max	MinT	Total	Norm	DepNml	Yr to Date
National (DCA)	92.3	73.9	83.1	79.0	+3.9	102/6,7	63/2,3	5.17	3.66	+1.51	18.77
Baltimore (BWI)	92.5	70.5	81.5	76.5	+5.0	105/5	56/2	4.36	3.85	+0.51	23.52
Dulles (IAD)	90.8	68.1	79.5	75.7	+3.8	101/7	52/3	4.17	3.57	+0.60	22.17

Looking Ahead: After experiencing the hottest June-July on record, attention turns to summer's final month. Will the area record its hottest summer ever? Below are the hottest 10 summers in Washington and where 2010 stands after 2 months:

Hottest Summer Temperatures at DCA: June, July, August										
Year	2010	1980	1991	2002	1993	1987	1983	1995	1999	1988
Temperature	81.9*	80.0°F	79.4°F	79.4°F	79.3°F	79.2°F	79.1°F	79.1°F	79.2°F	79.0°F

*Average temperature for June and July 2010.