



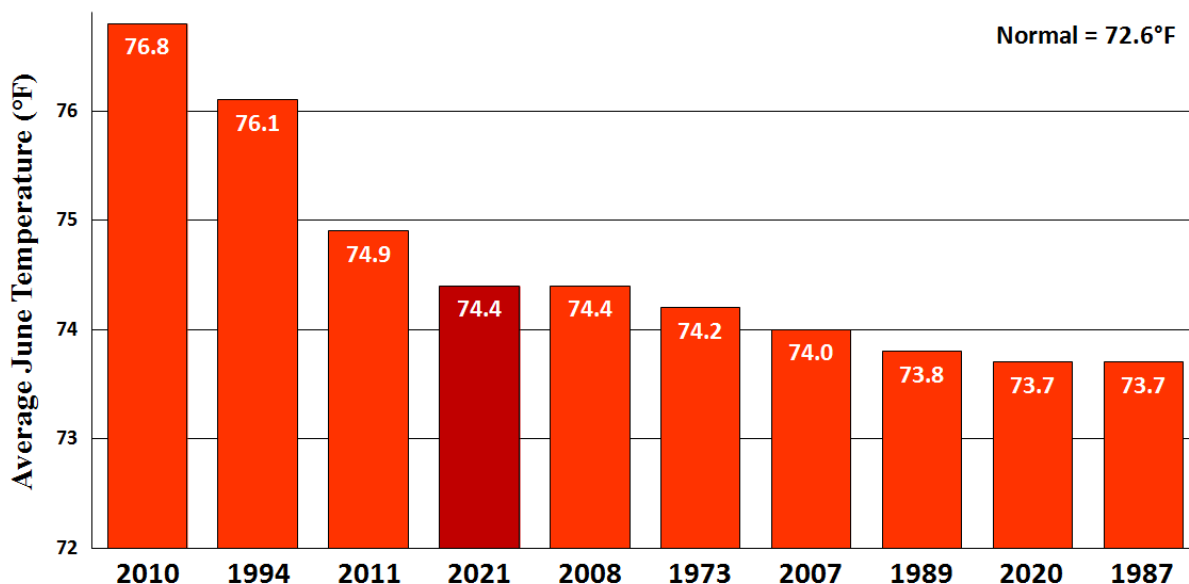
PRESTO

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



JUNE 2021: Rather Hot; Rainy Second Week, Then Dry; Flooding, Tornado Highlight Frequent Severe Events

Tied 4th-Hottest June In Dulles' 60-Year Record



June Highlights

- ☁ Near to above normal **temperatures**: DCA 76.6°F (+0.3); BWI 75.9°F (+2.4); IAD 74.3°F (+1.8)
- ☁ 5th - 9th – Record high temperatures of **92°F** and **93°F** at IAD occurred on the 5th and 6th, respectively. A record high low of **76°F** occurred at DCA on the 7th. Record high lows at IAD of **72°F**, **73°F** and **71°F** occurred on the 7th, 8th and 9th, respectively.
- ☁ 19th, 27th, 28th – Record high low temperatures occurred at IAD of **71°F**, **72°F** and **74°F**, respectively.
- ☁ Highly variable **precipitation**, yet overall near normal: DCA 5.51" (+1.31); BWI 2.75" (-1.23); IAD 3.65" (-0.65)
- ☁ 3rd – an **EF0 tornado** with winds estimated at 95 mph tracked for 2.0 miles near Jacksonville (Baltimore Co.), MD. Widespread thunderstorm wind damage and flooding also occurred.
- ☁ 8th - 11th – Widespread thunderstorm wind damage and flooding. Most of the flooding occurred around the Culpeper, VA area on the 10th, where 4-day rainfall totals from the 8th - 11th ranged from 7" to 8". Most of the wind damage occurred near the DC metro and eastward on the 8th.
- ☁ 13th – Much of the area observed wind damage and flooding from thunderstorms.
- ☁ 14th – Strong thunderstorms dropped up to 1" diameter hail around the DC and Baltimore metro areas and eastward. Winds over the Chesapeake Bay gusted to near 50 mph. A 49 mph gust was measured over the water near Baltimore City. IAD set a daily rainfall record with 1.02".
- ☁ 21st – Widespread wind damage from thunderstorms occurred, including a measured 65 mph gust at a buoy near Cape St. Claire (Anne Arundel Co.), MD.
- ☁ 30th – Thunderstorm wind damage occurred across western VA, MD and eastern WV and near the Baltimore and DC metro areas and east. A 67 mph wind gust was measured at the Chesapeake City NOS station (Cecil Co.), MD.

June 2021

June Temperatures: Monthly average temperatures were slightly above average for most places during June. All three primary stations had positive monthly temperature anomalies with BWI having the greatest at 2.4F. IAD had a 1.8F anomaly and DCA had a 0.3F anomaly. This technically marked DCA's 12th consecutive June (2010-2021) with an above normal average temperature, however, when only considering the new (1991-2020) June normal (76.3°F), June 2016 and June 2018 had slightly below normal temperatures, with 2012 at normal.

For IAD, it was the 4th warmest June on record. Even though BWI had a greater anomaly, the monthly temperature does not rank in the top 10 warmest due to its longer period of record. Several high low temperature records were broken or tied at IAD and a few record high temperatures were set or broken. See the highlights for specific dates and records. DCA hit 90°F or higher on 7 days, and at IAD on 11 days. Humid mornings kept DCA's and IAD's low temperatures in the 70s on 13 and 9 occasions, respectively.

The 23rd and 24th saw the coolest mornings of the month, as low temperatures dropped into the 40s across northern and central MD and west to western VA and eastern WV, including 45°F at the Martinsburg Airport (Berkeley Co.), WV on the 23rd, and 46°F at the Winchester (Frederick Co.), VA and Shenandoah Regional (Augusta Co.), VA airports on the 24th. The 29th and 30th were the hottest days of the month across the region, as BWI soared to 99°F on the 30th, while 98°F or 99°F was reached at least once for a few other sites: around the Charlottesville, VA area; Webster Field (St. Mary's Co.), MD; the National Arboretum (Northeast), DC; and even as far west as Keyser (Mineral Co.), VA.

June Precipitation and Severe Weather: Most areas reported near normal rainfall for the month although there were isolated locations with well above normal rainfall. Of the three primary stations, only DCA had a positive precipitation anomaly (+1.31"). BWI was 1.28" below normal while IAD was 0.65" below normal. IAD did set a daily rainfall record of 1.02" on the 14th. Some of the most significant rain totals for the month were 10.50" in Riverside (Charles Co.), MD, 9.07" near Culpeper, VA, and 8.80" in Towson (Baltimore Co.), MD

The same supercell that spawned the **EFO tornado** immediately southeast of Jacksonville, MD also brought torrential rains near Fallston (Harford Co.), MD that totaled **4.40"**. When considering either severe weather or heavy rains, the second week was the most-active of the month: On the 9th, **5.95"** of rain was observed near St. Mary's City (St. Mary's Co.), MD ... before more heavy rains on the 10th, as great as **7.18"** in Culpepper, VA, and **3.41"** in Towson, MD ... led to dozens of flood reports across the region through the 11th, including a water rescue in Westminster (Carroll Co.), MD. On the 11th, Riverside (Charles Co.), MD reported a very extreme 1-day rain total of **8.41"**. The 14th saw numerous late day storms bring large hail and damaging winds to both metros...with **1.80"** hailstones in Columbia (Howard Co.), MD before heavy rains prompted a water rescue in Towson, MD. Later that evening, straight line winds estimated as high as **75 mph** downed many trees and power poles in both the Norwood Heights/Yale Heights section of Baltimore City and Edgemere (Baltimore Co.), MD. On the 20th, thunderstorms caused damage from winds and lightning in the Potomac Highlands of WV. Lightning caused fire to a structure in Hampshire County, WV. The 21st's mid-morning to mid-afternoon storms brought nearly 100 reports of severe wind damage across the entire northern portion of the region, including numerous downed trees in Hagerstown (Washington Co.) and Baltimore City, MD. On the 28th, thunderstorm wind damage was reported in eastern WV, before the month ended with storms downing several trees from Allegany Co., MD to Loudoun Co., VA on the 30th.

June 2021 Weather Statistics for the Washington/Baltimore Area

Location	Station Temperatures (°F)					Extreme/Day		Precipitation (inches)			
	Av Max	Av Min	Avg T	Nml T	ΔNml	Max	Min	Total	Nml P	ΔNml	Year To Date
National (DCA)	85.0	68.2	76.6	76.3	+0.3	95/30	57/1,23	5.51	4.20	1.31	21.87
Baltimore (BWI)	86.4	65.4	75.9	73.5	+2.4	99/30	51/1,23	2.75	3.98	-1.23	19.35
Dulles (IAD)	84.8	63.9	74.3	72.5	+1.8	97/30	49/17,23	3.65	4.30	-0.65	17.23

Looking Ahead: Will July be a record hot month? July is typically the hottest month locally. In fact, the highest monthly average temperature on record for all three of the primary observing stations occurred in July.

Average July Temperature		
Site	Normal	Record (Year)
DCA	81.0	84.5 (2011)
BWI	78.3	82.6 (2020)
IAD	77.2	81.0 (2011, 2020)