

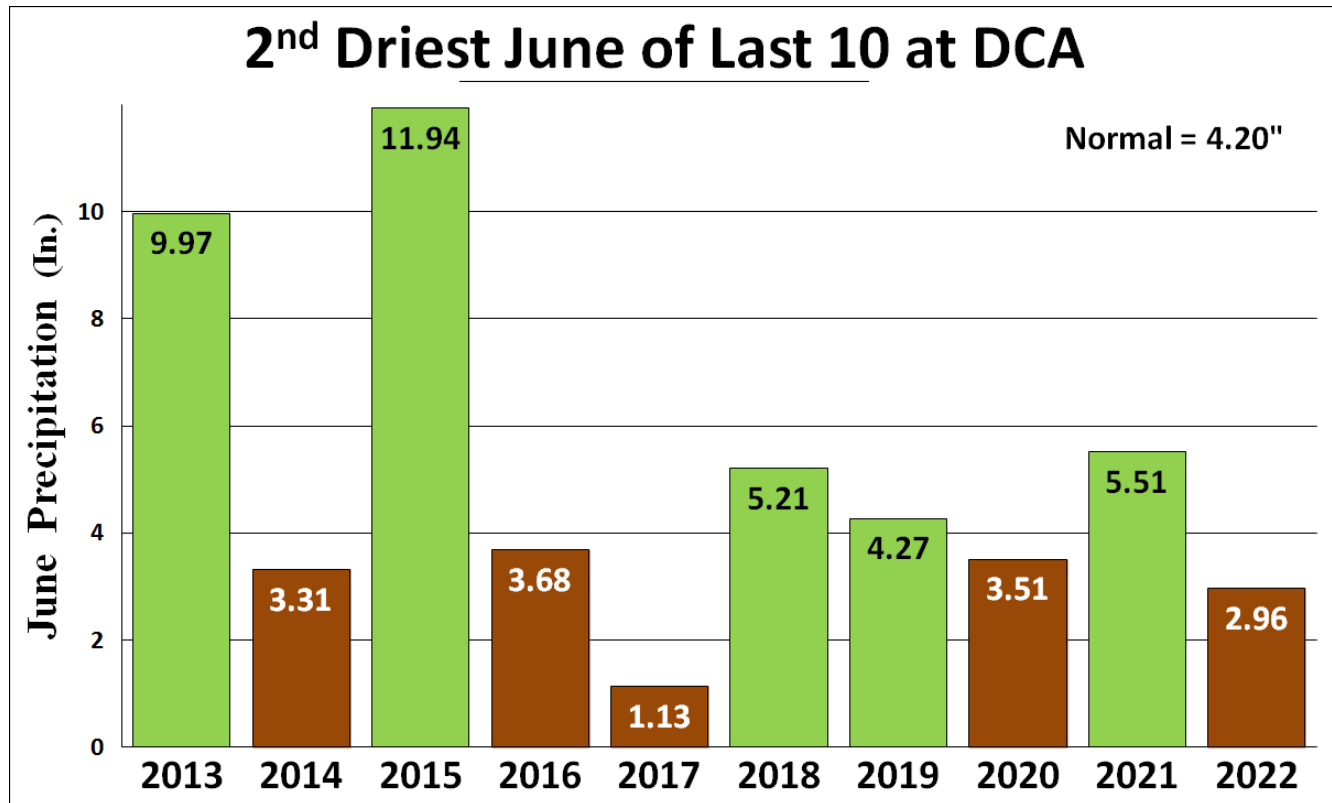


# PRESTO

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



## JUNE 2022: Seasonable Between Record Highs and Lows; Rather Dry For Most Locations Despite Several Severe Events



### June Highlights

- ☁ Near normal **temperatures**: DCA 76.0°F (-0.3°F); BWI 74.0°F (+0.4°F); IAD 72.6°F (+0.1°F)
- ☁ **17<sup>th</sup>** – DCA, BWI, IAD set record highs of **99°F**, **96°F**, and **96°F**, respectively
- ☁ **20<sup>th</sup>** – BWI and IAD set record lows of **51°F** and **48°F**, respectively
- ☁ Few appreciable rains lead below normal **precipitation**: DCA 2.96" (-1.24"); BWI 2.95" (-1.03"); IAD 2.75" (-1.55")
- ☁ **2<sup>nd</sup>** – Widespread thunderstorm wind damage DC metro and south: Gusts to **64 mph** in Churchville (Augusta Co.), VA, **67 mph** at Smith Island, MD buoy; **1.50" hail** in Leesburg (Loudoun Co.), VA
- ☁ **8<sup>th</sup>** – Widespread thunderstorm wind damage south of DC metro, MD Piedmont; **1.50" hail** in Great Cacapon (Washington Co.), MD; **EF0 tornado** east of Mechanicsburg (St. Mary's Co), MD tracks 3.3 mi, w/est'd **85 mph** winds
- ☁ **16<sup>th</sup>** – Widespread thunderstorm wind damage and large hail, including **1.75" hail** in Chester Gap, VA
- ☁ **22<sup>nd</sup>** – Storms bring numerous reports of wind damage, while winds gusts to **62 mph** at both Quantico Marine Base (Prince William Co.), VA and Big Meadows (Madison Co.), VA; **1.00" hail** in Martinsburg, WV; over 10 reports of roads submerged by **flash flooding** along the Shenandoah River

## June 2022

**June Temperatures:** Very warm to hot days on the 1<sup>st</sup>-2<sup>nd</sup> and 13<sup>th</sup>-17<sup>th</sup> offset the milder two weeks previous, which included very cool conditions during the 18<sup>th</sup>-20<sup>th</sup>: DCA 76.0°F (-0.3°F); BWI 74.0°F (+0.4°F); IAD 72.6°F (+0.1°F). Widespread 90s were observed on the 1<sup>st</sup> with **98°F** in Mechanicsville (St. Mary's Co.), MD, while lows were held in the low 70s inside the beltways through the 1<sup>st</sup>-2<sup>nd</sup>. The 13<sup>th</sup> and 17<sup>th</sup> were hot days that encapsulated an otherwise very warm workweek; maximums of 90-95°F were common on the 1<sup>st</sup> before the 17<sup>th</sup>'s record heat (see highlights above), where many locations climbed into the mid to upper 90s, and 100°F was reached on the mountain banks of the Potomac River at Keyser (Mineral Co.), WV.

The highly-amplified pattern then quickly switched to record lows (see above) as northerly winds built Canadian air into the region. Despite ample sun, nearly all locations failed to hit 80°F on the 18<sup>th</sup> or 19<sup>th</sup>, with widespread lows in the 50s on both the 19<sup>th</sup> and 20<sup>th</sup>. Several mountain locations recorded one daily high of 66°F, with some sites reporting daily minimums as low as the **upper 30s**. The occasional below-normal trend continued through the remainder of the month. On the 23<sup>rd</sup>, both DCA and BWI recorded a high of only 73°F; within the 27<sup>th</sup>-29<sup>th</sup>, most locales had a 48-hour period with mild diurnal ranges from the 50s to the low 80s. For the month, DCA recorded 5 more **90°F-days**, taking the year's total to 7 – both values are 3 days below normal; elsewhere, June's 90°F-day tally was near normal, with 8 at BWI and 6 at IAD.

**June Precipitation and Severe Weather:** (See above highlights for further details of greatest severe episodes). Strong to severe thunderstorms were rather frequent through the first half of the month, yet the localized nature of more heavier rainfall events kept monthly totals below normal at the three airports: DCA 2.96" (-1.24"), BWI 2.95" (-1.03"), IAD 2.75" (-1.55"). The mainly convective nature of rain promoted highly variable rainfall totals. 3-5" monthly totals were common across the region; although many northern counties west of Baltimore saw half as much, while higher patches of 5-7" were reported from the Blue Ridge to the Chesapeake Bay. Totals ranged from **1.20"** at Keyser, WV to **7.40"** in Friendship Heights (Northwest), DC.

While isolated downpours amid otherwise dry days were fairly common, especially through the month's very warm middle week, most of the region's precipitation fell across three separate days. The 2<sup>nd</sup>'s intense storms produced heavy rainfall across the DC metro from **1.76"** in Opal (Fauquier Co.), VA, to **2.35"** in White Oak (Montgomery Co.), MD, to **2.22"** in Annapolis (Anne Arundel Co.); strong gradients were included as only 0.01" was recorded at the Damascus 3 SSW COOP site (Montgomery Co.). The 8<sup>th</sup>'s at times intense storms brought another small patch of heavy rainfall across MD, this time focused slightly north of the 2<sup>nd</sup>'s bulls eye and eastward across the Baltimore metro: **3.24"** in both Columbia (Howard Co.) and Catonsville (Baltimore Co.), and **2.76"** Town Point (Cecil Co.). Last but not least, the 22<sup>nd</sup> was the overall rainiest day of the month, as most locations received up to **1.00-2.50"**, with even greater totals inside the DC beltway, including **3.41"** at Bon Air (Arlington Co.), VA, **2.73"** in Friendship Heights, DC, and **2.76"** in Glenmont (Montgomery Co.), MD.

Additional isolated to scattered severe events occurred on the 11<sup>th</sup>, 13<sup>th</sup>, and 26<sup>th</sup>. On the 11<sup>th</sup>, isolated damaging winds downed trees into a house near Gatewood (Spotsylvania Co.), VA. Despite lack of appreciable rainfall observations, the 13<sup>th</sup> saw 15 reports of wind damage north and west of DC, and especially across Montgomery County, MD. The 17<sup>th</sup> brought thunderstorm wind damage and a **58 mph** (marine) gust at Cobb Island (Charles Co.), MD, after dropping a reported **1.02"** on Monterey (Nelson Co.), VA. On the 27<sup>th</sup>, two people were injured when struck by lightning at a campground in Sangerville (Augusta Co.), VA; other cells brought isolated heavy rainfall reports: **2.39"** near Dilbeck (Shenandoah Co.), VA and **1.11"** in Hancock (Washington Co.), MD.

A handful of other days brought showers and thunderstorms with less-widespread appreciable rains. The greatest local observations by day were: 1<sup>st</sup>'s **1.17"** at Knightly (Augusta Co.), VA; the 12<sup>th</sup>'s several observations around **1.00"** in/near Fredericksburg, VA; the 14<sup>th</sup>'s **1.07"** in Rosedale (Baltimore Co.), MD; the 15<sup>th</sup>'s **1.02"** Fair Hill (Cecil Co.), MD; the 16<sup>th</sup>'s **1.95"** in Woodburn (Loudoun Co.), MD; and the 27<sup>th</sup>'s **1.24"** near Great Mills (St. Mary's Co), MD.

### June 2022 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)	84.7	67.2	76.0	76.3	-0.3	99*/17	58/20	2.96	4.20	-1.24	21.29
Baltimore (BWI)	84.9	63.0	74.0	73.6	+0.4	96*/17	51*/20	2.95	3.98	-1.03	21.97
Dulles (IAD)	84.1	61.0	72.6	72.7	+0.1	96*/17	48*/20	2.75	4.30	-1.55	19.97

\*Daily record temperatures denoted by asterisks

**Looking Ahead:** Will July follow DCA's dry pattern in June? Thirteen Junes since 1991 measured less than 3.00" of precipitation at DCA. Seven of the corresponding Julys were also quite dry, while four Julys received above normal rainfall.

DCA	1991	1992	1993	1994	1995	1997	1999	2005	2007	2010	2011	2012	2017	2022
JUNE	1.27"	2.35"	1.73"	1.59"	2.42"	2.94"	2.26"	2.87"	1.38"	1.87"	1.68"	2.38"	1.13"	2.96"
JULY	3.76"	5.34"	1.36"	3.61"	4.03"	1.14"	1.01"	6.06"	5.17"	3.03"	3.03"	2.81"	9.15"	??
DCA 1991 - 2020 Normal Monthly Precipitation (In.): JUNE (4.20") ... JULY (4.33")														