

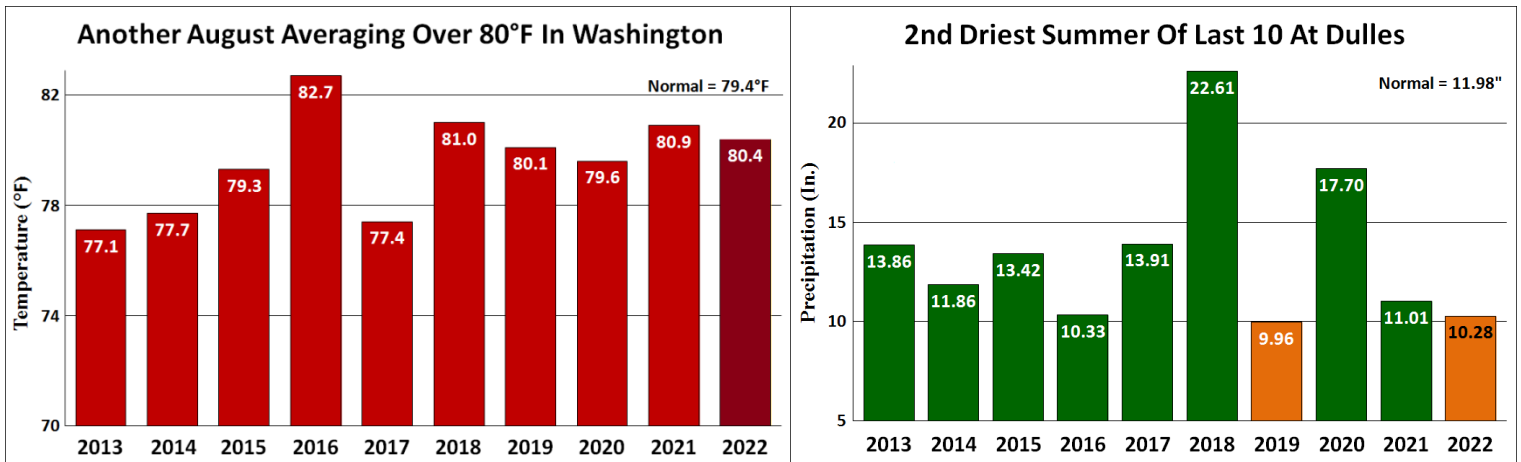


# PRESTO

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



## AUGUST 2022: Hotter, Drier Than Most Recent Augusts; SUMMER: Warm Pattern Continued, Dry Northwest of Metros



### August Highlights

- ☁ Above normal **temperatures**: DCA 80.4°F (+1.0°F); BWI 79.1°F (+2.9°F); IAD 77.5°F (+1.8°F)
- ☁ Fifteen 90°F + days at each of the three airports (DCA, BWI, IAD) were above normal by 4 (DCA) to 7 (IAD) days
- ☁ Locally hvy rains on 4<sup>th</sup>, 10<sup>th</sup> guide near-normal **precipitation**: DCA 2.42" (-0.83"); BWI 3.71" (-0.38"); IAD 2.30" (-1.23")
- ☁ 4<sup>th</sup> – Thunderstorms produce nearly 50 reports of wind damage across VA and especially central MD: 65 downed trees block 18 roads in Bowie (Prince George's Co.), MD; **58 mph** gust at DCA; **3 killed, 1 injured** by lightning near the White House; as much as **4.36"** in Hamilton (Baltimore City), **2.72"** in Calvert Co., MD, and **2.20"** in Ashburn (Loudoun Co.), VA
- ☁ 10<sup>th</sup> – Storms bring scattered wind damage, w/tree on I-495 in Four Corners (Montgomery Co.), MD; and rains as great as **3.44"** in Alexandria, VA, **3.19"** at Kidwells Corner (Prince George's Co.), MD, and **2.70"** in Jefferson County, WV
- ☁ 30<sup>th</sup> – Scattered severe storms across mainly VA: numerous wooden power poles snapped east of Winchester (Frederick Co.), VA, while a tree was snapped in half and lofted 100 yards near Myersville (Frederick Co.), MD

### Summer Seasonal Highlights

- ☁ Progressively warmer trend, **temperatures** above normal: DCA 79.2°F (+0.3°F); BWI 77.8°F (+1.8°F); IAD 76.1°F (+0.9°F)
- ☁ Near normal **rainfall** despite an excessively wet July: DCA 12.99" (+1.21"); BWI 12.91" (+0.36"); IAD 10.28" (-1.70")
- ☁ 6/8 – 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
- ☁ 6/22 – Numerous severe storms, gusts to **62 mph** in VA at both Quantico Marine Base (Prince William Co.) and Big Meadows (Madison Co.), VA; over 10 reports of roads submerged by **flash flooding** along the Shenandoah River
- ☁ 7/5 – Isolated severe storms include a 70mph **microburst** in South Laurel (Prince George's Co.), MD, and an **EF1 tornado** w'est'd 90 mph winds in Bowie, and a brief **tornado** of unknown winds (EFU) in Harwood (Anne Arundel Co.)
- ☁ 7/12 – Hampshire County, WV sees 9-mile wide, 23-mile long **macroburst** with **105 mph** winds, and two brief tornadoes (**EF0, EF1**); **90 mph** damaging winds in both College Park (Prince George's Co.) and Harford County, MD

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## August & Summer Season 2022

**August Temperatures:** Above normal heat on the 4<sup>th</sup>-9<sup>th</sup> was offset by the 12<sup>th</sup>-18<sup>th</sup>'s milder period; however, a heat wave that brought 7 consecutive 90°F days to both DCA and IAD over the 24<sup>th</sup>-30<sup>th</sup> set the month's trend: DCA 80.4°F (+1.0°F); BWI 79.1°F (+2.9°F); IAD 77.5°F (+1.8°F). Nineteen (13%) of the Washington Area's 151 recorded Augusts have averaged 80°F or higher, however, most (10) of these have now occurred this century; while August 2022 was only the fourth warmest of DCA's last 10, it was the 12<sup>th</sup> warmest on record for the Washington Area, placing it in the 92<sup>nd</sup> percentile since 1872.

**August Precipitation and Severe Weather:** August brought adequate rainfall to most locations, although mainly light rains prevailed between the 10<sup>th</sup> and 30<sup>th</sup>: DCA 2.42" (-0.83"), BWI 3.71" (-0.38"), IAD 2.30" (-1.23"). Monthly rainfall extremes were found across the MD Piedmont, ranging from **1.04"** in Thurmont (Frederick Co.) to **8.12"** east of Jarrettsville (Harford Co.).

Thunderstorms on the 1<sup>st</sup> led to several reports of downed trees, including 20 trees or large limbs downed near Leesburg (Loudoun Co.), although the only report of heavy rainfall was **1.18"** in Friendship Heights (Northwest), DC. Back-to-back days of thunderstorms continued on 5<sup>th</sup> when scattered wind damage was focused in Baltimore and Harford Counties in MD, while several trees were also downed onto MD-295 near Linthicum (Anne Arundel Co.), MD; meanwhile, locally heavy rains included **2.23"** south of Fredericksburg (Spotsylvania Co.), VA, **2.15"** in Reston (Fairfax Co.), VA, and **1.90"** northwest of Prince Frederick (Calvert Co.), MD. On the 22<sup>nd</sup>, heavy rains were confined to Harford County, MD, where as much as **3.96"** fell east of Jarrettsville. The greatest rainfall report from the 30<sup>th</sup>'s storms was **1.23"** southeast of Martinsburg (Berkeley Co.), WV.

Days with isolated severe thunderstorms were common, especially during late August. More noteworthy events included the 9<sup>th</sup>, when winds downed several trees and power wires in Frederick Co., causing a transformer fire, as well as the 22<sup>nd</sup>, when late day thunderstorms in VA downed trees that blocked all travel lanes on US-15 in Culpepper County.

### August 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)	89.2	71.7	80.4	79.4	+1.0	97/9	64/13,18	2.42	3.25	-0.83	31.95
Baltimore (BWI)	89.4	68.7	79.1	76.2	+2.9	99/4	58/13	3.71	4.09	-0.38	31.93
Dulles (IAD)	88.4	66.7	77.5	75.7	+1.8	97/4	57/13	2.30	3.53	-1.23	27.50

**Summer (Jun-Aug) Temperatures:** Readings trended from a seasonable June to above normal by August: DCA 79.2°F (+0.3); BWI 77.8°F (+1.8); IAD 76.1°F (+0.9). On 6/17 DCA, BWI, IAD set record highs of **99°F**, **96°F**, and **96°F**, respectively, just before 6/20's record lows of **51°F** and **48°F**, at BWI and IAD, respectively. IAD also set a record low max of **72°F** on 7/9. DCA and IAD both tallied 34 90°F-days, which equaled the normal at DCA; this was the lowest Jun-Aug total since 2018 at IAD, and since 2014 at DCA.

**Summer (Jun-Aug) Precipitation and Severe Weather:** A dry June, wet July, and generally seasonable August rains guided summer precipitation totals to near-normal for most locations: DCA 12.99" (+1.21"); BWI 12.91" (+0.36"); IAD 10.28" (-1.70"); with these values ranging from 86% of normal at Dulles to 110% of normal at DCA.

Widespread thunderstorm wind damage hit the DC metro and points south on 6/2: Gusts to **64 mph** in Churchville (Augusta Co.), VA, **67 mph** at Smith Island, MD buoy; **1.50" hail** in Leesburg (Loudoun Co.), VA. 6/16 brought widespread thunderstorm wind damage and large hail, including **1.75" hail** in Rappahannock County, VA. Thunderstorms through 7/2-7/3 brought scattered wind damage and reports of locally very heavy rainfall across MD: **5.71"** in Hyattsville (Prince George's Co.), **3.95"** near Town Point (Cecil Co.), and **3.59"** in Colesville (Montgomery Co.). 7/8's torrential rains were led by **4.90"** in Potomac (Montgomery Co.), MD and **4.73"** south of Warrenton (Fauquier Co.), VA. On 7/25, storms brought heavy rain and several severe wind reports to DC metro and south, including **2.91"** in Ancient Oaks (St. Mary's Co.), and 1.30" in Charlottesville, VA. The drier trend often seen in recent years west of the metros was present once again in a more west-to-east orientation: a wide swath along the Potomac River from Garrett County to north of Martinsburg, WV, as well as much of central Maryland from Frederick County to Baltimore County and far-northern portions of Montgomery and Howard Counties, only recorded 50-75% of normal rainfall through the season.

### Summer 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	Greatest Day
National (DCA)	87.6	70.7	79.2	78.9	+0.3	99/6-17	58/6-20	12.99	11.78	+1.21	4.05/7-9
Baltimore (BWI)	88.2	67.4	77.8	76.0	+1.8	99/8-4	51/6-20	12.91	12.55	+0.36	2.46/7-7
Dulles (IAD)	86.9	65.2	76.1	75.2	+0.9	97/8-4	48/6-20	10.28	11.98	-1.70	1.48/7-9

**Looking Ahead to Fall:** What does fall hold for the Washington Area? Below are notable records for September-November.

#### Autumn Temperature Extremes

**Warmest:** 2016, average temperature: 63.9°F (+2.9°F)  
**Coldest:** 1917, average temperature: 52.9°F (-8.1°F)  
**Highest Recorded Temperature:** **104°F** (9/7/1881)  
**Lowest Recorded Temperature:** **11°F** (11/30/1929)  
**Most Days with... Highs ≥ 90°F:** 14 (1980); **Lows ≤ 32°F:** 19 (1901)

#### Autumn Precipitation Extremes

**Wettest:** 1934, 21.78" (+11.74")  
**Driest:** 1930, 1.83" (-8.21")  
**Snowiest:** 1987, 11.5"  
**Greatest 1-Day Precipitation:** **5.16"** (9/2/1922)  
**Greatest 1-Day Snowfall:** **11.5"** (11/11/1987)