



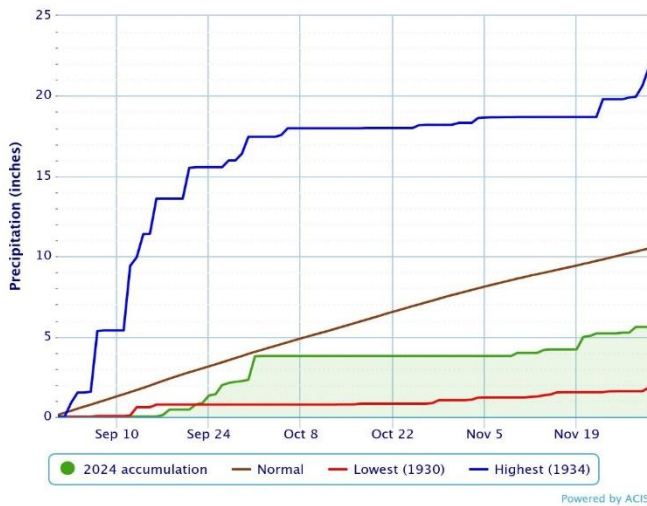
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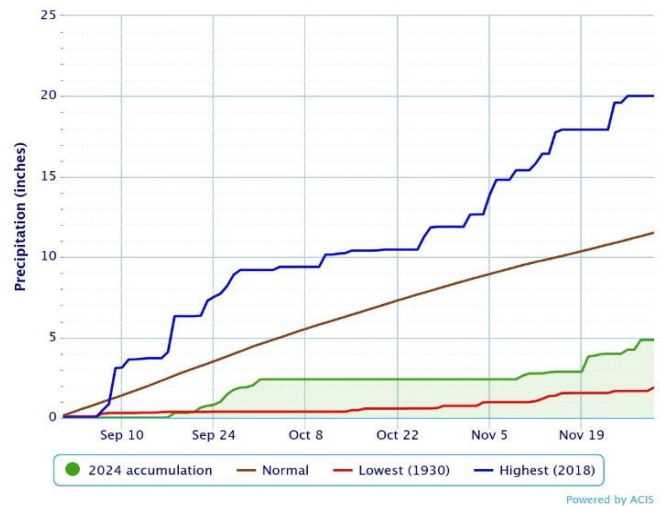
PREcipitation Summary and Temperature Observations
for the Washington, DC and Baltimore, MD Area

NOVEMBER & FALL 2024: Warm & Dry

Accumulated Precipitation – Washington Area, DC (ThreadEx)



Accumulated Precipitation – Baltimore Area, MD (ThreadEx)



Accumulated Precipitation – Sterling-Dulles Airport Area, VA (ThreadEx)



Total Precipitation during the period 9-1-24 through 11-30-24 at DCA (upper left), BWI (upper right) and IAD (lower center). All three stations reported well below normal precipitation for the period. There was a 38-day (record at each station) stretch with no measurable precipitation at all 3 stations between Oct. 2 and Nov. 10.

November Highlights

- **Month (temperature)** – Temperatures were well above normal with monthly temperature anomalies of +5.3°F at DCA, +5.0°F at IAD and +3.8°F at BWI; DCA had the warmest November on record for the Washington Area while Dulles had its 3rd warmest November on record; Baltimore had its 14th warmest November on record
- **Month (precipitation)** – Rainfall was below normal with monthly anomalies of –1.28" at IAD, –1.10" at DCA and –0.68" at BWI
- **6th- 7th** – Record highs at DCA (83°F, 6th and 84°F, 7th), BWI (81°F, 6th) and IAD (83°F, 6th and 81°F, 7th)
- **10th** – First measurable rainfall at Washington, Baltimore and IAD in 38 days (record-longest dry period at all 3 stations)
- **11th** – DCA tied a record high with 78°F
- **21st** – Daily record rainfall at IAD of 0.78"
- **21st- 22nd** – Heavy snow in mountains of western MD and eastern WV. 17.3" (2-day total) observed near Accident, MD (Garrett Co.); 1" or less fell across areas near the PA border
- **30th** – DCA had its first freeze of the season (30°F)

November Summary

Temperatures: November was a very warm month with well above temperatures. DCA's 55.2°F monthly average temperature was the Washington Area's warmest November on record. IAD's 51.8°F monthly average temperature was its 3rd-warmest November on record. BWI was not as warm relative to normal as DCA and IAD but it still had its 14th-warmest November on record. Most of the extreme warmth occurred in the first half of the month with widespread high temperature records set on the 6th and 7th and again on the 11th.

Precipitation: It was another dry month across the region. On the 10th, the first measurable rainfall since Oct. 2 occurred in many locations. The dry streak of 38 days set an all-time record for all three locations. More consistent rainfall near the end of the month helped raise monthly totals closer to average but all areas finished below normal for the month. As of the 26th, moderate to severe drought, with a small area of extreme drought in northeastern Maryland, was observed across the local area (see below).

U.S. Drought Monitor Baltimore, MD/ Washington, DC WFO

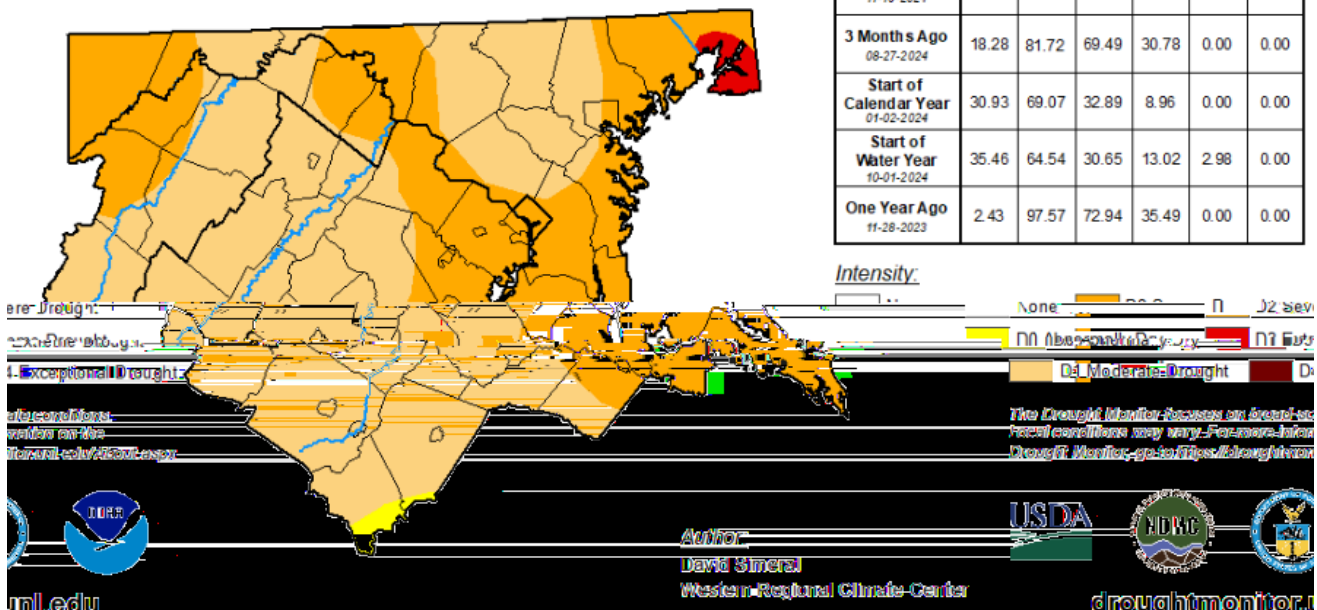
November 26, 2024

(Released Wednesday, Nov. 27, 2024)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	99.24	38.75	0.99	0.00
Last Week 11-19-2024	0.00	100.00	99.24	39.24	3.90	0.00
3 Months Ago 08-27-2024	18.28	81.72	69.49	30.78	0.00	0.00
Start of Calendar Year 01-02-2024	30.93	69.07	32.89	8.96	0.00	0.00
Start of Water Year 10-01-2024	35.46	64.54	30.65	13.02	2.98	0.00
One Year Ago 11-28-2023	2.43	97.57	72.94	35.49	0.00	0.00



November 2024 Statistics:

Location	Station Temperatures (°F)					Extreme/Day		Precipitation (inches)			
	Av Max	Av Min	Avg T	Nml T	ΔNml	Max	Min	Total	ΔNml	Year/ΔNml	Snowfall
National (DCA)	63.6	46.7	55.2**	49.9	+5.3	84*/7	30/30	1.81	-1.10	34.69/-3.72	T
Baltimore (BWI)	61.2	40.3	50.8	46.9	+3.8	81*/6	23/30	2.45	-0.68	34.16/-7.13	T
Dulles (IAD)	61.5	40.4	51.0	46.0	+5.0	83*/6	20/30	1.85	-1.28	31.03/-8.91	T

*Daily Record

**Warmest November on record

Fall Highlights

S E P T E M B E R

- 8th-9th – Record lows tied at Baltimore (46°F, 8th) and Martinsburg (40°F, 9th)
- 21st and 22nd – Large hail in Augusta, VA (1.75" diameter, 21st) and a 61-mph thunderstorm wind gust north of Westminster (Carroll Co.), MD (22nd)
- 25th-30th – Widespread river and urban flooding across central and western VA, including several road closures, primarily from the remnants of Hurricane Helene; Storm totals of 5-10" were common south and west of Culpepper, VA, with several 11-15" reports in western Albemarle County, VA

O C T O B E R

- 16th-21st – Most areas outside of Washington DC observed the first frost/freeze of the season during the period with many areas observing frost each morning
- 31st – Record high temperatures of 83°F at IAD and Martinsburg, WV

Fall Summary

Temperatures: The climatological fall saw near-record warmth across portions of the local region. DCA's +2.6°F anomaly made for the 2nd-warmest fall since 1871 (behind 2016's 63.9°F), while IAD's +2.3°F departure was the 5th-warmest since 1962. BWI's +1.0°F anomaly was the most modest overall average of the 3 airports. November was the warmest month relative to normal temperatures while September averaged closest to normal. BWI had a -1.2° monthly anomaly for October while DCA and IAD were positive. September started off cool with record low temperatures before the remainder of the month was close to average. October was near average until the end of the month when very warm temperatures and a few record highs were set. The warm trend continued into early November with record high temperatures once again. The middle and end of November cooled down but temperatures were still relatively mild until the 29th when well below normal temperatures settled in.

Precipitation: Climatological fall was dry with below normal precipitation occurring in all three months. October was the driest month with most areas observing less than an inch of rainfall. There was a 38-day dry streak of no measurable precipitation between Oct. 2 and Nov. 10 at all 3 stations. This is the longest such streak on record for all three locations. BWI observed less than half of its normal precipitation during the fall with a 6.67" precipitation deficit. IAD also observed less than half of normal precipitation with a 5.47" deficit. DCA observed a little more than half of its normal precipitation with a 4.90" deficit. With the dry conditions, moderate to severe drought developed over most of the region.

FALL 2024 Statistics:

Location	Station Temperatures (°F)					Extreme/Day		Precipitation (inches)			
	Av Max	Av Min	Avg T	Nml T	ΔNml	Max	Min	Total	Normal	ΔNml	Snowfall
National (DCA)	72.1	55.0	63.6	61.0	+2.6	87/9-10	30/11-30	5.60	10.50	-4.90	T
Baltimore (BWI)	69.7	47.8	58.8	57.8	+1.0	89/9-1	23/11-30	4.84	11.51	-6.67	T
Dulles (IAD)	70.5	48.2	59.4	57.1	+2.3	86/9-20*	20/11-30	5.25	10.72	-5.47	T

Looking Ahead: Normals & Extreme Temperature/Precipitation Values for December

Location	Station Temperature (°F)			Extreme/Day		Precipitation (inches)			
	Nml Mx	Nml Mn	Nml T	Record Max/Date/Yr	Record Min/Date/Yr	Normal	Precipitation Max/Year	Precipitation Min/Year	Monthly Snow Nml / Max/Year
National (DCA)	48.8	34.5	41.7	79/7/1998	-13/31/1880	3.41	7.56/1901	0.19/1889	1.7 / 16.6/2009
Baltimore (BWI)	47.5	29.6	38.6	77/7/1998*	-3/30/1880	3.71	8.06/2009	0.20/1955	2.5 / 20.4/1966
Dulles (IAD)	46.5	29.0	37.7	79/6/1998	-4/25/1989	3.30	6.74/1969	0.32/2007	2.8 / 24.2/1966

*Latest of more than one occurrence