

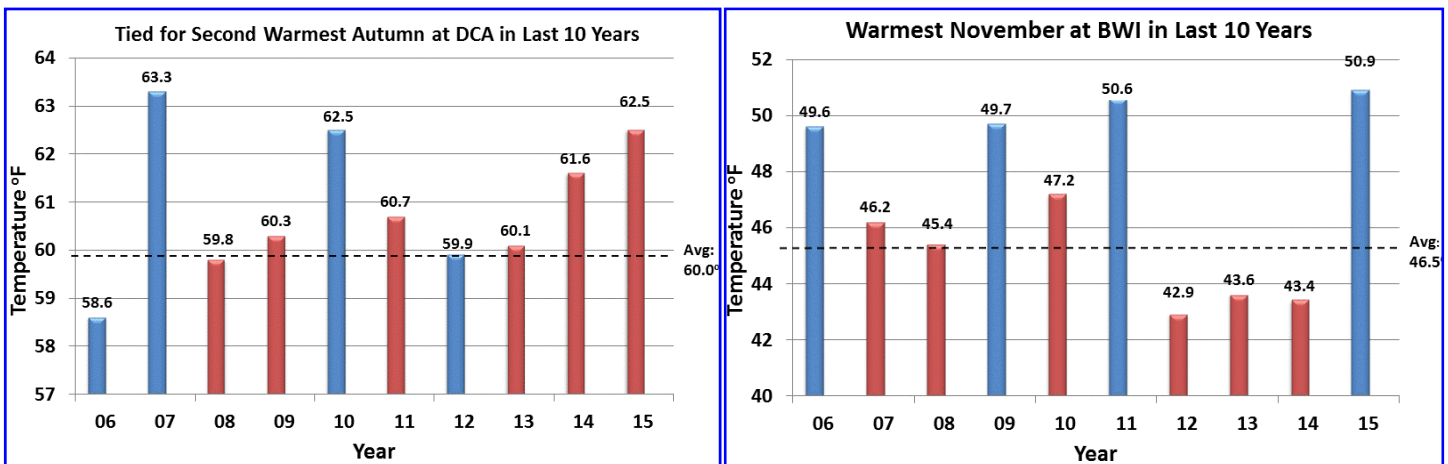


PRESTO

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



NOVEMBER and AUTUMN: Above Normal Temperatures and Subnormal Rainfall



November Highlights

- Well above normal temperature readings for the month: positive departures were +4.1°F at DCA, +4.4°F at BWI and +3.9°F at IAD
- DCA marked its 6th warmest November on record, BWI, 12th warmest on record and warmest since 1994, IAD 3rd warmest on record and warmest since 2001
- Record breaking warmth occurred on the 6th when all three airports reached 80°F. It was the second latest calendar date 80°F or greater reading at BWI, 3rd latest at IAD and 4th latest at DCA
- DCA recorded its first freezing temperature of the season (32°F) on the 23rd
- Well below normal rainfall was reported throughout the area with the three major airports recording between 2.0"-2.5"
- Not even a trace of snow at the three major airports for the first time since 2010

Autumn Highlights

- Above normal temperatures at DCA, BWI and IAD: warmest since 2010 at DCA, and since 2007 at BWI and IAD
- Mid-summer heat first third of September: temperatures soared to at or above 90°F from the 1st-4th and 7th-9th at all three major airports; BWI's maximum reading of 94°F on the 9th and IAD maximum reading of 93°F on the 8th equaled records for the date; DCA was an oppressive 96°F on the 3rd and 95°F on the 1st
- On Sep. 29, a major weather event started in the evening. An EF-0 tornado was confirmed (winds estimated at 75 mph) near Laurel and Scaggsville in Prince Georges and Howard counties, MD. The tornado was on the ground for 11 minutes with a maximum path width of 75 yards and a path length of 4.3 miles, causing tree and property damage but no reported injuries or fatalities. Strong thunderstorms knocked down trees in Leesburg (Loudoun County), VA, and in Pikesville (Baltimore County), MD. Flash flooding from torrential downpours lead to a water rescue in Leesburg; flooding was reported throughout Frederick County, MD. Rainfall totals reached 5" to nearly 7" across portions of Albemarle, Loudoun, Madison, Spotsylvania and Stafford counties in Virginia and Calvert, Frederick, Harford, Montgomery and St. Mary's counties in Maryland. Greatest totals in Maryland were 6.51" near Dickerson (Montgomery County) and in Virginia, 6.94" at Big Meadows Coop in Madison County. BWI reported a daily record of 2.58"; DCA observed 1.65" and IAD 1.57".
- The growing season ended at most locations on Oct. 18 when IAD observed 31°F, or on the 19th, when BWI dropped to 29°F, a record for the date and the coldest October reading since October 24, 2003
- Heavy rainfall and coastal flooding occurred during a slow moving coastal storm from Oct. 1-4, with several roads flooded across Southern Maryland, including Chaptico in St. Mary's County and Solomons in Calvert County; total rainfall across the metro area generally between 1.5"-2.0"
- On Oct. 28th, a soaking rainfall drenched portions of northern Maryland and Virginia with totals reaching 3.65" near Westminster (Carroll County) and 3.20" in Damascus (Montgomery County); in Virginia, totals included 3.09" near Haymarket (Prince William County) and 3.00" near Leesburg (Loudoun County); IAD reported a daily record of 1.97"

November 2015

Temperatures: The final month of meteorological autumn featured well above normal readings. Positive departures were +4.1°F at DCA, +4.4°F at BWI and +3.9°F at IAD. It was the warmest November since 1985 at DCA and 6th warmest on record, warmest since 1994 at BWI and 12th warmest on record, and warmest since 2001 at IAD and 3rd warmest on record. DCA reported 6 days with highs at or above 70°F while BWI and IAD recorded 4 days. Record breaking warmth occurred on the 6th when all three airports reached 80°F; it was the 2nd latest calendar date 80°F or greater reading at BWI, 3rd latest at IAD and 4th latest at DCA. On the same day, a high minimum reading of 63°F at BWI equaled a record for the date while this same reading established a daily record at IAD. At DCA, a high minimum of 59°F on the 19th equaled a daily record.

Cold air was limited to 3 days: 22nd, 23rd and 30th when maximum temperatures held in the 40s. DCA recorded its first freezing temperature of the season (32°F) on the 23rd.

Precipitation: The area recorded well below normal rainfall for the month with the three major airports measuring between 2.0"-2.5". The monthly total at DCA was 2.10" (-1.07"); at BWI, 2.42" (-0.88") and at IAD, 2.06" (-1.35"). There were no calendar days when 1.0" or greater of rainfall was measured at the three major airports. Not even a trace of snow at the three major airports for the first time since 2010.

Two events resulted in the majority of the months' precipitation. From the 9th-10th about 0.75" was recorded across the immediate metro area. Considerably heavier amounts fell across Southern Maryland, including 3.07" in Webster Field (St. Mary's County) and 2.50" near the Patuxent River (Calvert County); in Virginia, 1.75" was measured near Scottsville (Nelson County). On the 19th, rainfall totaled between 0.50"-0.75" across many locations with the highest amount, 1.03", in Rixeyville (Culpeper County), VA.

The month featured one exceptionally windy day. On the 13th, there were strong westerly winds reported with gusts to 48 mph near Frederick, MD, and 45 mph near Greenwood (Augusta County), VA.

November 2015 Weather Statistics for the Washington/Baltimore Area

Location	Station Temperatures (°F)					Extreme/Day		Precipitation (inches)			
	AvMx	AvMin	AvgT	NmlT	DepNml	Max	Min	Total	Nml	DepNml	Yr. to Date
National (DCA)	62.0	45.3	53.7	4.96	+4.1	80/6	32/23	2.10	3.17	-1.07	40.18
Baltimore (BWI)	60.9	41.0	50.9	4.65	+4.4	80/6	28/23	2.42	3.30	-0.88	45.31
Dulles (IAD)	61.2	39.5	50.3	4.64	+3.9	80/6	26/21	2.06	3.41	-1.35	35.62

Autumn (Sep-Nov) Temperatures: Seasonal temperatures were above normal at all three major airports: DCA, and BWI, +2.5°F and IAD, +2.3°F. Warmest since 2010 at DCA, and since 2007 at BWI and IAD. September was the warmest month of the season and 7th warmest September on record at IAD and since 2010 at DCA and IAD. BWI's maximum reading of 94°F on Sep. 9 and IAD maximum reading of 93°F on the Sep. 8 equaled records for the date. October temperatures were slightly below normal. There were no days over 80°F at DCA and BWI, for the first time since October 2004 at DCA and since 2005 at BWI. Parts of the area recorded their first frost on Oct 18-19, including IAD and BWI. November was well above normal (see monthly summary above).

Autumn Precipitation: Seasonal precipitation was below normal at all three airports: DCA, 7.29" (-3.00"), BWI, 9.07" (-1.59") and IAD, 8.34" (-2.24"). September was extremely dry until the final days when heavy rainfall deluged some locations resulting in above normal monthly totals. The event, which began the evening of Sep. 29, also resulted in an EF-0 tornado (winds estimated at 75 mph) near Laurel and Scaggsville in Prince Georges and Howard counties, MD. The tornado was on the ground for 11 minutes with a maximum path width of 75 yards and a path length of 4.3 miles, causing tree and property damage but no reported injuries or fatalities. On Sep 2, severe weather resulted in quarter size hail (1.00") struck some locations in Virginia, including near Criders (Rockingham County). On the 12th, a waterspout was observed over the Potomac River from Cobb Island, (Charles County), MD. Rainfall totals reached 5" to nearly 7" across portions of Albemarle, Loudoun, Madison, Spotsylvania and Stafford counties, VA; and Calvert, Frederick, Harford, Montgomery and St. Mary's counties, MD. BWI reported a daily record of 2.58". October rainfall was close to normal with the heaviest rain at the start and end of the month. On Oct. 1-2, 1.5"-2" fell across the area. On Oct 28, 3"-4" drenched many locations. Greatest amounts in Maryland included 3.65" near Westminster (Carroll County) and 3.20" in Damascus (Montgomery County), while in Virginia totals included 3.09" near Haymarket (Prince William County) and 3.00" near Leesburg (Loudoun County) IAD reported a daily record of 1.97". In the evening, strong thunderstorms knocked down a tree near Freeland (Baltimore County) and large branches near Uppercro (Carroll County), MD. November rainfall was below normal (see monthly summary above).

Autumn 2015 Weather Statistics for the Washington/Baltimore Area

Location	Station Temperatures (°F)					Extreme/Day		Precipitation (inches)		
	AvMx	AvMin	AvgT	NmlT	DepNml	Max	Min	Total	Nml	DepNml
National (DCA)	71.0	53.9	62.5	60.0	+2.5	96/9-3	32/11-23	7.29	10.29	-3.00
Baltimore (BWI)	69.8	48.9	59.3	56.8	+2.5	94/9-3, 9-9	28/11-23	9.07	10.66	-1.59
Dulles (IAD)	70.0	47.7	58.8	56.5	+2.3	94/9-3	26/11-21	8.34	10.58	-2.24

Looking Ahead to December: For the last 5 years, DCA has recorded subnormal snowfall in December. Will December 2014 bring more snow? Shown below are the most recent 10 years of December snowfall in Washington. Normal DCA December snowfall is 2.3".

Year	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005
December Snowfall	Trace	1.5	0.2	Trace	2.1"	16.6"	Trace	2.6"	Trace	4.8"