

Central Indiana

November 2017

Climate Summary

54th Warmest on record at Indianapolis

40th Wettest on record at Indianapolis

Temperatures

November started out warm as southerly flow enabled highs into the 60s across much of the area. Temperatures peaked on the 5th ahead of a strong cold front that moved across central Indiana late in the day. Highs rose into the 70s over much of the Ohio Valley ahead of thunderstorms, marking the high point for temperatures for the entire month.

Temperatures became much more seasonable behind the front, with highs mainly in the 50s from the 6th through the 9th. Another frontal passage brought the first significant incursion of colder air into the region beginning on the 10th as highs only held in the low to mid 30s with lows falling well into the 20s. Highs slowly recovered into the 40s over the next week before peaking in the 60s once again on the morning of the 18th ahead of strong low pressure and a cold front. Temperatures were cooler behind the front but remained generally near normal into Thanksgiving week with highs in the 40s and 50s.

Warmer air returned on the 24th and remained through the end of the month as high pressure dominated the weather across the Ohio Valley. High temperatures surged to nearly 20 degrees above normal in the 60s on multiple days at the end of November. After a few chilly mornings in the lower and middle 20s on Thanksgiving week, lows warmed into the 30s and even lower 40s for the last few days of the month.

Site	November 2017 Avg Temp	November 2017 Difference from Normal	Highest Temperature	Lowest Temperature
Indianapolis	43.9	+0.3	73 on 5	23 on 22
Lafayette	41.5	-1.3	68 on 5	19 on 10
Muncie	44.2	+1.6	71 on 5	22 on 11
Terre Haute	43.9	+0.6	72 on 5	24 on 22 and 23
Bloomington	44.7	+0.9	72 on 5	23 on 26
Shelbyville	44.5	+0.7	72 on 5	23 on 23 and 26
Indy – Eagle Crk.	44.0	0.0	72 on 5	24 on 11

(*) – Temperature data missing at Shelbyville on November 16.

At Indianapolis, there were 15 days with above normal average temperatures and 15 days with below normal average temperatures.

November 2017 was the 54th warmest in the Indianapolis area since 1871.

Precipitation

Monthly precipitation for November was near normal to above normal for much of Indiana. Monthly totals ranged from slightly over 1.5 inches in southwest Indiana to just over 8 inches in portions of north central and east central Indiana. Most areas received between 3 and 6 inches of rainfall during the month.

Most of the precipitation during November was concentrated in the first 18 days of the month. Locally heavy rains of 1 to nearly 3 inches fell in portions of Indiana from the 1st through the 3rd. Storms on the 5th dumped from 1 to nearly 5 inches of rain in much of the eastern half of Indiana. Severe weather returned on the 18th and dropped an additional 1 to 4 inches of rainfall in central and northern Indiana. A dry spell began on the 19th and continued through the 29th. Light rainfall of 0.01 to 0.30 inches fell state-wide during the morning of the 30th.

Monthly snowfall for November ranged from a trace to an inch in central and northern Indiana. Portions of central and northern Indiana received from a trace to one-half of an inch early on the 1st. Frozen precipitation fell again in northern Indiana on the 9th, 10th, 12th, 18th, 19th, and 23rd in the form of light snow and in central Indiana on the evening of the 21st in the form of ice pellets.

Lowland river flooding returned to the area for the first time since July. Lowland flooding from the storms of the 5th was in portions of eastern and southern Indiana and lasted from a day to nearly 3 days. More extensive lowland flooding developed in central and

western Indiana following the storms of the 18th. High water persisted from about 2 days to a week along the Wabash River.

Site	November 2017 Precipitation	November 2017 Difference from Normal	Wettest Day	Longest Dry Stretch
Indianapolis	3.96	+0.26	1.17 on 5	8 days 22-29
Lafayette (*)	2.96	-0.01	2.00 on 18	8 days 22-27
Muncie	5.84	+2.39	2.12 on 5	8 days 22-29
Terre Haute	3.49	-0.35	1.27 on 5	8 days 22-29
Bloomington	5.43	+1.49	1.90 on 5	8 days 22-29
Shelbyville	6.57	+2.84	3.48 on 5	8 days 22-29
Indy – Eagle Crk.	3.25	-0.45	1.38 on 18	8 days 22-29

(*) - Precipitation missing at Lafayette on November 5.

November 2017 was the 40th wettest in the Indianapolis area since weather records began in 1871.

Severe Weather

Two late season severe weather events impacted central Indiana in November. The first and more extensive severe weather occurred on the afternoon of November 5 ahead of a strong cold front. Severe thunderstorms developed near midday over northern portions of central Indiana and raced east into the afternoon. Three tornadoes occurred over central Indiana. The first two impacted the northeast portions of central Indiana, including the longest track tornado of the entire event which began over northeast Delaware County just northeast of Eaton. This EF2 tornado would eventually track 39 miles into Blackford and Jay Counties before crossing into Mercer County in Ohio. A second tornado briefly touched down in Muncie near the Muncie Fieldhouse, embedded within an area of strong straight line winds. This tornado was rated EF1 with maximum winds to 95 mph.

The third tornado of the day developed from an intense supercell thunderstorm that tracked across southern portions of central Indiana. The EF1 tornado tracked for 3 miles near Springville in Lawrence County, damaging multiple structures. Storms also produced wind damage and large hail throughout central Indiana. For more information on this event, click on <http://www.weather.gov/ind/nov52017severe>.

The other severe weather event of the month occurred during the late morning and afternoon of the 18th ahead of strong low pressure and a cold front. Thunderstorms produced wind damage primarily focused northwest of the Indianapolis metro area. A brief EF0 tornado tracked for less than a mile just to the northeast of Dayton in

Tippecanoe County, damaging a house and knocking down several trees. A microburst with maximum winds to 85 mph produced extensive damage on the east side of Frankfort. For more information on this event, click on <http://www.weather.gov/ind/nov182017severe>.

For information on severe weather in other areas during November, visit the Storm Prediction Center "Severe Weather Event Summaries" website at <http://www.spc.noaa.gov/climo/online/>.

Miscellaneous

The maximum wind gust at Indianapolis International Airport was 48 mph out of the south-southwest on the afternoon of the 18th as a line of thunderstorms moved through the Indianapolis metro area. Fog or haze was reported at Indianapolis on 13 days during the month. Thunder occurred at Indianapolis on the 2nd, 5th and 18th. Ice pellets were reported at the airport on the evening of the 21st.

December 2017 Outlook

The official outlook for December 2017 from the Climate Prediction Center indicates much greater chances for below normal temperatures. At Indianapolis, the average temperature is 31.6°. The outlook also calls for equal chances for near, above or below normal precipitation. The average precipitation for December at Indianapolis is 3.17", with 6.9" of snowfall.

Data prepared by the Indianapolis Forecast Office.