

SUMMER 2024 Review

of Weather Conditions Experienced in Central Indiana

49th Warmest on record at Indianapolis (Tied)

68th Driest on record at Indianapolis

SUMMER 2024 Temperature Data for Central Indiana Sites

Station	SUMMER 2024 Average Temperature	SUMMER Season Normal Temp	Difference From Normal
Indianapolis Int'l Airport	74.9	74.3	+0.6
Lafayette	72.8	72.2	+0.6
Bloomington	74.2	73.4	+0.8
Muncie	73.4	74.4	-1.0
Terre Haute	74.8	73.9	+0.9
Shelbyville	75.5	74.2	+1.3
Eagle Creek Airpark	75.2	74.3	+0.9

SUMMER 2024 Temperature Extremes Across Central Indiana

Station	Highest Temperature	Lowest Temperature
Indianapolis Int'l Airport	96 on 8/30	44 on 6/11
Lafayette	96 on 8/27	38 on 6/11
Bloomington	96 on 8/30	40 on 6/11
Muncie	97 on 8/30	45 on 6/11
Terre Haute	97 on 8/27, 8/30	43 on 6/11
Shelbyville	98 on 8/30	45 on 6/11
Indianapolis Eagle Creek AP	96 on 8/30	46 on 6/11

SUMMER 2024 Precipitation Data for Central IN Sites

Site	SUMMER 2024 Precipitation	SUMMER Season Normal Precip	Difference From Normal	Greatest Daily Precipitation
Indianapolis Int'l Airport	10.72	12.57	-1.85	2.55 on 7/28
Lafayette	10.32	11.76	-1.44	1.64 on 7/9
Bloomington	9.25INC	13.32	M	1.64 on 8/16
Muncie	7.99	12.29	-4.30	0.75 on 6/5
Terre Haute	8.99	11.97	-2.98	1.03 on 7/9
Shelbyville	11.14	12.22	-1.08	2.71 on 7/4
Eagle Creek Airpark	10.83	12.59	-1.76	1.53 on 7/9

9.25INC – Precipitation data missing at **Bloomington** on 6/25 and 6/26

Summer 2024 Severe Weather

JUNE 2024's latter half picked up where the spring's active pattern had left off, beginning with slow-moving evening thunderstorms on the 17th, whose few taller cells produced wet microbursts with damaging winds in Vigo, Martin and Daviess Counties.

June 25th's intense afternoon squall line produced considerable damage from Terre Haute to Bloomington: a widespread swath of 65-75 mph winds from central Terre Haute down to Sullivan spread southeastward through Clay, Owen, Greene and Brown Counties before gradually weakening through Lawrence and Jackson Counties. Numerous large trees and power poles were snapped or uprooted through southern Terre Haute, with widespread property damage to cars and homes estimated at 2 billion dollars. Damage was then concentrated through the Clay City and Jasonville communities before Bloomington observed the episode's most significant damage (following a 78 mph gust at the local airport). 75 mph winds were reported as far southeast as southern Brown County; the squall's duration from Terre Haute to Seymour was 2 hours.

June 29th's afternoon storm cluster produced scattered wind damage along the Interstate 74 corridor, from an embedded bow echo that produced a 68 mph gust at the Crawfordsville Airport, downed trees across the Indianapolis Metro (most notably in Beech Grove), and toppled several large trees in Rush County. Locally very heavy rainfall exceeding 2.00 inches was well-received by antecedent dry conditions that prevented any flooding. An early-evening landspout tornado of unknown intensity (EFU) crossed the Illinois line into Warren County, producing no damage within Indiana.

JULY 2024 continued the active pattern from the latter half of June, severe thunderstorms impacted central Indiana on five days in July, albeit focused in the month's final week. Post-Tropical Cyclone Beryl crossed western portions of Indiana on the evening of the 9th, bringing several tornadoes to far southwestern portions of the state, yet the local region saw only a brief **EFO tornado** in west-central Martin County. July 15th included both late day rotating supercells that dropped **1.00-inch hail** on three southeastern counties, and then the decaying portion of an intense derecho, with a **75 mph** gust recorded at Lafayette, wind damage across several northern counties, and a semi truck blown over in Tipton County.

A lull in damaging storms ended on July 24th when a rogue cell produced severe winds in Madison County, before training downpours on the 28th produced isolated flash flooding along the Owen-Morgan County line. A more organized episode on the 29th brought severe winds to 5 counties, with most intense reports over northeastern zones: a very large air-conditioner unit was lifted off its foundation in Delaware County, before an **EF2 tornado** tracked 3 miles while crossing from Hamilton County to Madison County. More storms on the morning of the 30th focused damaging winds on Knox County.

AUGUST 2024 Despite an active latter half of June and a persistently stormy final week of July, August 2024's severe events were confined to the month's first few days, which concluded a period with severe weather episodes during six of seven days. August 1st included both a marginally-severe afternoon bow echo that only downed a couple trees across Knox and Daviess Counties, and early evening torrential downpours that produced **flash flooding** across northern portions of the Indianapolis Metro and Henry County. Interstate 465 at Fall Creek was made impassable by floodwaters, while the nearby Castleton 2S COOP station reported 2.70" of rainfall in 1 hour. A non-severe thunderstorm on August 3rd produced a cloud-to-ground lightning strike in Jennings County that struck a tent, injuring two persons.

Despite a very busy spring and early summer, no further tornadoes were reported in Indiana during August. The local region had still recorded 11 tornadoes between March 14th and July 29th, with a much more impressive year-to-date **state total of 49 tornadoes** from events spanning from February 10th to July 30th. This makes for the third-most tornadoes of any recorded year (since 1950), and when coupled with 2023's anomalous state total, the **greatest 2-year tally on record, 103 tornadoes**.

For info on severe weather in other areas during the SUMMER season, visit the Storm Prediction Center "Severe Weather Event Summaries" website at spc.noaa.gov/climo/online

Indianapolis Summer 2024 Monthly Data

INDIANAPOLIS JUNE 2024 SUMMARY

	Average Temp	Precipitation	Highs $\geq 90^\circ$	Lows $\geq 70^\circ$
June 2024	74.2	2.16	6	8
Normal June	72.5	4.95	3	5
Diff from Normal	+1.7	-2.79	+3	+3

JUNE 2024 All-Time Ranks...

Temperature: 32nd Warmest (Tied)

Precipitation: 22nd Driest

INDIANAPOLIS JULY 2024 SUMMARY

	Average Temp	Precipitation	Highs $\geq 90^\circ$	Lows $\geq 70^\circ$
July 2024	75.4	6.46	2	6
Normal July	75.8	4.42	7	10
Diff from Normal	-0.4	+2.04	-5	-4

JULY 2024 All-Time Ranks...

Temperature: 67th Coolest (Tied)

Precipitation: 22nd Wettest

INDIANAPOLIS AUGUST 2024 SUMMARY

	Average Temp	Precipitation	Highs $\geq 90^\circ$	Lows $\geq 70^\circ$
August 2024	75.3	2.10	10	8
Normal August	74.7	3.20	6	7
Diff from Normal	+0.6	-1.10	+4	+1

AUGUST 2024 All-Time Ranks...

Temperature: 39th Warmest (Tied)

Precipitation: 43rd Driest

INDIANAPOLIS SUMMER 2024 SUMMARY

	Average Temp	Precipitation	Highs $\geq 90^\circ$	Lows $\geq 70^\circ$
SUMMER 2024	74.9	10.72	18	22
Normal SUMMER	74.3	12.57	17	22
Diff from Normal	+0.6	-1.85	+1	0

SUMMER 2024 All-Time Ranks...

Temperature: 49th Warmest (Tied)

Precipitation: 68th Driest

Fall 2024 Outlook for Central Indiana

The official outlook for the 2024 fall season (September-November) from the Climate Prediction Center, indicates slightly greater chances for above normal temperatures and equal chances of above, below, or near normal precipitation across all of central Indiana.

At Indianapolis, the normal fall temperature is **55.6°F** and the normal fall precipitation is **9.81"**.

*Data prepared by the NWS Indianapolis Weather Forecast Office's Indiana State Climate Team
Questions should be referred to nws.indianapolis@noaa.gov*