

WINTER 2024–2025 Review

of Weather Conditions Experienced in Central Indiana

55th Coldest on record at Indianapolis

47th Driest on record at Indianapolis

47th Snowiest on record at Indianapolis

WINTER 2024-25 Temperature Data for Central Indiana Sites

Station	WINTER 2024 Average Temperature	WINTER Season Normal Temp	Difference From Normal
Indianapolis Int'l Airport	30.6	31.4	-0.8
Lafayette	28.5	28.8	-0.3
Bloomington	31.0 INC	32.8	M
Muncie	30.3	31.5	-1.2
Terre Haute	31.2	31.7	-0.5
Shelbyville	31.8 INC	32.6	M
Eagle Creek Airpark	32.2	31.6	+0.6

WINTER 2024-25 Temperature Extremes Across Central Indiana

Station	Highest Temperature	Lowest Temperature
Indianapolis Int'l Airport	68 on 2/3	-3 on 1/21
Lafayette	64 on 2/3, 2/28	-8 on 1/15
Bloomington	M on 2/3	-3 on 1/22
Muncie	65 on 2/3	-2 on 1/22
Terre Haute	68 on 2/3	-6 on 1/15
Shelbyville	71 on 2/3	-5 on 1/15
Eagle Creek Airpark	69 on 2/3	-0 on 1/22

INC – Temperature data was incomplete at BLOOMINGTON on 1/9–16 and 1/27–2/3, and at SHELBYVILLE on 12/27–29

WINTER 2024-25 Precipitation Data for Central Indiana Sites

Site	WINTER 2024 Precipitation	WINTER Season Normal Precip	Difference From Normal	Greatest Daily Precipitation
Indianapolis Int'l Airport	7.42	8.47	-1.05	1.24 on 12/29
Lafayette	4.92 INC	6.26	M	1.45 on 12/29
Bloomington	6.95 INC	9.34	M	1.43 on 12/29
Muncie	5.06 INC	7.36	M	0.96 on 12/29
Terre Haute	5.44	7.11	-1.67	1.16 on 12/29
Shelbyville	6.33	8.36	-2.03	1.18 on 12/29
Eagle Creek Airpark	5.87 INC	7.33	M	1.43 on 12/29

INC – Precipitation data was incomplete at both LAFAYETTE and MUNCIE on 1/10 ... at EAGLE CREEK on 1/5–6 and 1/10 and at BLOOMINGTON on 1/9–12, 1/16, and 1/30–31

Winter 2024-25 Severe & Impactful Weather

DECEMBER 2024's Severe Drought (D2) that had been established across much of north-central central Indiana since Halloween, expanded during early December between Kokomo and Tipton. Following several weather systems that brought overall ample precipitation to this northern tier, D2 was finally removed from all of Indiana on New Year's Eve. While the antithesis of severe, a very thin coating of snow on **December 2nd** caused locally significant impacts to late day traffic. Then on evening of the **4th**, a more significant weather system's strong cold front was followed by a quick snow shower amid wind gusts that reached **59 mph** at Lafayette, **64 mph** at Eagle Creek Airpark, and **62 mph** at Indianapolis.

JANUARY 2025's major winter storm slowly crossed the Midwest and Ohio Valley on **January 5th** and into the first half of the **6th**, bringing a broad swath of heavy snow across the region's central counties and down through southern Indiana, as well as significant sleet/mixed precipitation over several southern counties, and freezing rain/ice accumulation along the Ohio Valley. Snowfall distribution ranged from a dusting over most of the immediate Lafayette area to reports of 12-13" in both Daviess County and in and to the northeast of Seymour (Jackson Co.); a strong snowfall gradient also set-up along the northern side, with Boone County and Hamilton County both exhibiting a range in snowfall of 2-8" over only a ~12-mile distance. Indianapolis' snowfall (7.8") was the city's **greatest 2-day total in almost 4 years**, the 4th-greatest snowstorm in exactly 11 years, and the greatest 2-day *January* snowfall since 2014. The Indianapolis State

Police responded to a total of 234 vehicle accidents and slide offs, including 53 non-serious injuries; there were also several full closures of interstates during the night of the 5th. **January 10th** brought a light to mainly moderate snowfall across central Indiana, with reports around 3" common over many western and northern counties, while a maximum band of 4-5" extended from the Vincennes and Bloomington areas to Shelby and Rush Counties. Indianapolis observed 3.7"; this brought the city's 6-day snowfall total to 11.5", the greatest for so short a period since 2014. **Snow depth** reports on the morning of **January 11th** were mainly 8-10" along the I-70 corridor and south, with isolated 12-13" observations in Monroe and Jennings Counties, while Indianapolis reported 8". Indianapolis also recorded a 4"+ snow depth over 13 consecutive days (**5-17th**), tying the 12th-longest such streak since 1893 (a once-in-11 years occurrence). Scattered **Extreme Cold conditions** occurred at times over the **20-22nd**, when temperatures across the region ranged between mainly -10°F and 15°F, while winds gusted as high as 20-30 mph; resultant wind chill values dropped as low as -10 to -25 degrees each day.

FEBRUARY 2025 was free of severe weather, yet a mid-month storm system was pivotal to several impacts through February's third week. However, beforehand the **12th** brought a period of midday to evening freezing rain for much of the region's northern half as the freezing line slowly advanced northward across the Interstate 70 corridor; ice accumulation ranged from 0.05" in northeastern Marion County to 0.20" in Anderson.

February's greatest precipitation episode was a rain to snow event over the **15th–16th**, where a widespread **2.00–3.00"** of precipitation fell across the region's southern third, and the mainly 1.0–3.0" snowfall early on the **16th** also included several **4.0–5.0"** reports in Lawrence and Monroe Counties. **Minor flooding** followed the ample rainfall at not only secondary creeks and streams: Nashville (Brown Co.), Nebraska (Jennings Co.), and Shoals (Martin Co.); but also at several southern river sites: isolated flooding on the East Fork White was most pronounced at Seymour on the **16th–18th** and then Rivervale (Lawrence Co.) during the **18th–22nd**, while flooding occurred along the White River in Knox County within the **16th–24th**.

Unseasonable cold also followed the mid-month storm system, with the most frigid conditions occurring on the **17th–20th** where readings about 20 degrees below normal ranged from lows in mainly the single digits to highs around 20°F. Lowest observed temperatures occurred in Rockville (Parke Co.), between a maximum of 12°F (**17th**), and a minimum of -3°F (**21st**). Lowest minimum wind chills in the region's colder locales were around -15°F. Indianapolis reported morning lows of 14°F or lower on 6 consecutive mornings, which was only the third time this was recorded so late in the season since 1979. Even more notable were Indianapolis' 4 consecutive days reaching to 20°F or lower, which was only the fourth time this was ever recorded so late in the season (also occurring in 1932, 1934, and 1960).

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

Indianapolis Winter 2024–25 Monthly Data

INDIANAPOLIS DECEMBER 2024 SUMMARY

	Average Temp	Precipitation	Snowfall	Highs $\leq 32^\circ$	Lows $< 20^\circ$
December 2024	36.1	4.73	0.9	6	7
Normal December	33.3	2.92	6.4	7	8
Diff from Normal	+2.8	+1.81	-5.5	-1	-1

DECEMBER 2024 All-Time Ranks...

Precipitation: **23rd Wettest**

Temperature: **31st Mildest** (Tied)

Snowfall: **26th Least Snowiest** (Tied)

INDIANAPOLIS JANUARY 2025 SUMMARY

	Average Temp	Precipitation	Snowfall	Highs $\leq 32^\circ$	Lows $< 20^\circ$
January 2024	23.7	1.17	12.1	17	19
Normal January	28.5	3.12	8.8	12	13
Diff from Normal	-4.8	-1.95	+3.3	+5	+6

JANUARY 2025 All-Time Ranks...

Precipitation: **20th Driest**

Temperature: **36th Coldest** (Tied)

Snowfall: **22nd Snowiest**

INDIANAPOLIS FEBRUARY 2025 SUMMARY

	Average Temp	Precipitation	Snowfall	Highs $\leq 32^\circ$	Lows $< 20^\circ$
February 2024	31.9	1.52	4.1	6	10
Normal February	32.5	2.43	6.0	7	8
Diff from Normal	-0.6	-0.91	-1.9	-1	+2

FEBRUARY 2025 All-Time Ranks...

Precipitation: **47th Driest**

Temperature: **72nd Coldest** (Tied)

Snowfall: **72nd Least Snowiest** (Tied)

INDIANAPOLIS WINTER 2024–2025 SUMMARY

	Average Temp	Precipitation	Snowfall	Highs $\leq 32^\circ$	Lows $< 20^\circ$
WINTER 2024–25	30.7	7.42	17.1	29	36
Normal WINTER	31.5	8.47	21.2	26	29
Diff from Normal	-0.8	-1.05	-4.1	+3	+7

WINTER 2024–25 All-Time Ranks...

Precipitation: **47th Driest**

Temperature: **55th Coldest**

Snowfall: **47th Snowiest**

Spring 2025 Outlook for Central Indiana

The official outlook for the 2025 spring season (March–May) from the Climate Prediction Center, indicates equal chances of above, below, or near normal temperatures for nearly all of central Indiana, except far southeastern areas towards the Ohio Valley where slightly greater chances for above normal temperatures exist.

The outlook also indicates an axis of slightly greater chances of above normal precipitation across Indiana.

At Indianapolis, the normal Spring temperature is **53.2°F**. The normal spring precipitation and snowfall are **12.78"** and **3.4"**, respectively.

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