

Central Indiana

September 2024 Preliminary Climate Summary

22nd Warmest September on record at Indianapolis (Tied)

20th Driest September on record at Indianapolis (Tied)

Temperatures

Site	September 2024 Avg Temp	September 2024 Dep from Nml	Highest Temperature	Lowest Temperature
Indianapolis Int'l Airport	70.9	+3.1	94 on 21 st	45 on 8 th
Lafayette	69.1	+3.6	93 on 21 st	39 on 8 th
Muncie	68.6	+1.4	94 on 21 st	37 on 8 th
Terre Haute	69.6	+3.0	93 on 20 th , 21 st	39 on 8 th
Bloomington	69.6	+3.1	92 on 21 st	39 on 8 th
Shelbyville	70.8	+3.3	96 on 21 st	41 on 8 th , 9 th
Eagle Creek Airpark	70.6	+3.0	94 on 21 st	45 on 8 th

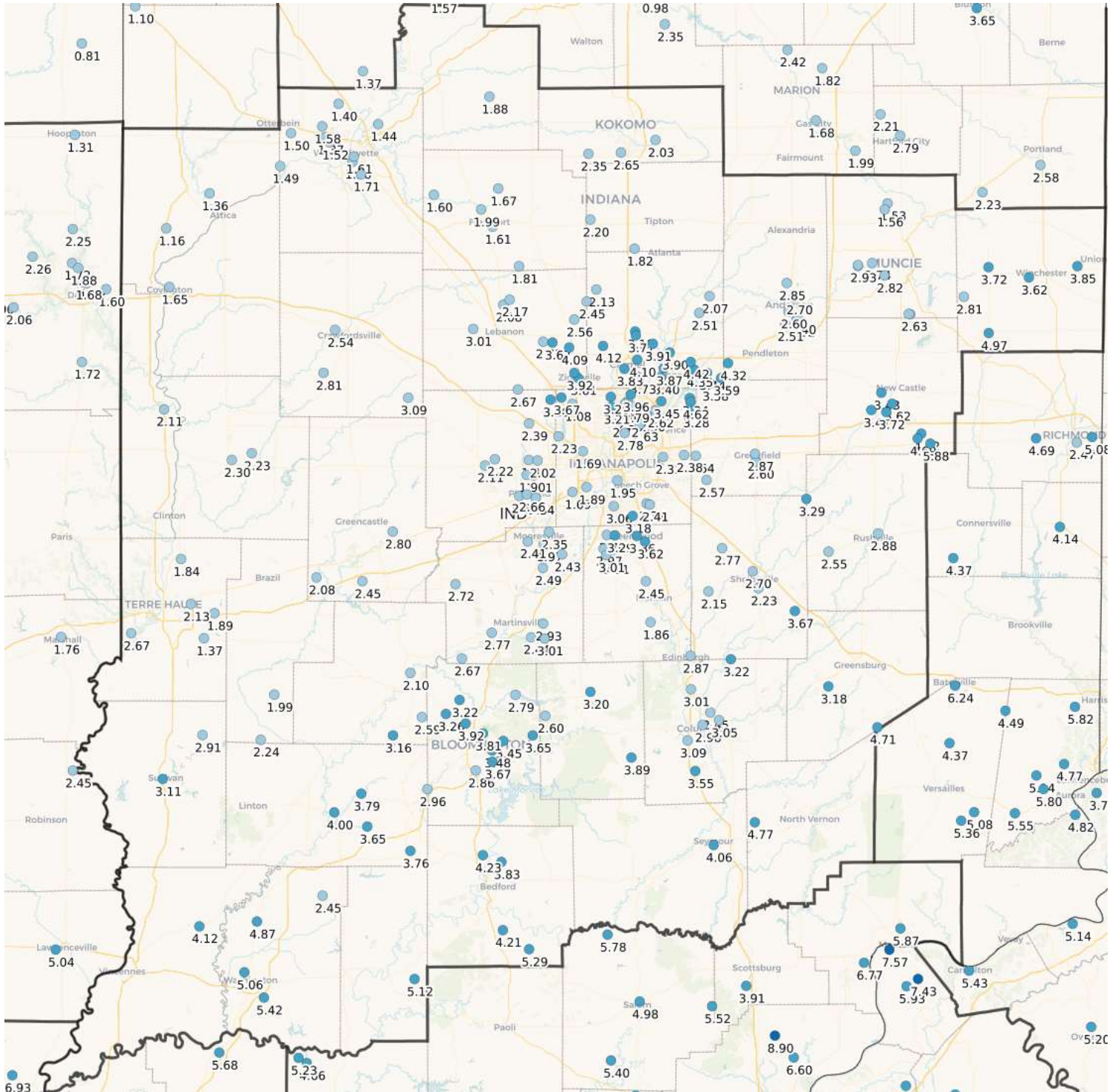
Indianapolis' average daily temperatures were above/below normal on 22/8 days, while within 5 degrees of normal on 12 days. September 2024 extrapolated the warm trend from August, while observing the greatest above normal departure since May 2024. It was the 10th consecutive September at/above normal, and the warmest September since 2019.

Precipitation

Site	September 2024 Precipitation	September 2024 Dep from Nml	Wettest Day	Longest Dry Stretch
Indianapolis Intl	1.52	-1.62	1.07 on 27 th	13 days, 7 th -19 th
Lafayette	1.64	-0.95	0.52 on 24 th	13 days, 7 th -19 th
Muncie	2.38	-0.71	0.80 on 22 nd	13 days, 7 th -19 th
Terre Haute	1.74	-1.19	1.00 on 27 th	12 days, 1 st -12 th
Bloomington	3.56	-0.04	1.44 on 27 th	12 days, 1 st -12 th
Shelbyville	2.23	-0.91	1.60 on 27 th	13 days, 7 th -19 th
Eagle Creek Arpk	2.04	-0.53	1.35 on 27 th	13 days, 7 th -19 th

Indianapolis continued August 2024's below normal rainfall trend, with the 2-month total (3.62") the 20th-lowest in the 154-year record. Many recent Septembers have been dry as this month was only **4th-driest of the last 10**. Helene's storm and remnants total at Indianapolis (1.14") was **75% of the month's total** and 31% of the 2-month sum.

September 2024 Total Precipitation, From 9/1/2024 Through 9/30/2024 As Reported by Central Indiana CoCoRaHS Observers



For the period 1200 AM EDT 9/1/2024 -to- 1200 AM EDT 10/1/2024, data is unofficial**

Only **1.40-2.25"** fell over most locations west and north of Indianapolis. Nevertheless, near to above normal rains reached the northern Indy Metro and points to the east-northeast, as well as many southern counties; monthly totals exceeded **5.00"** towards the Ohio Valley, with 50-70% of this precipitation from Post-Tropical Storm Helene.

Severe Weather

Following an active early summer, September continued August 2024's trend of sporadic/isolated severe weather before Post-Tropical Storm Helene's more widespread strong to severe winds on the 27th. Thunderstorms on the 6th produced isolated microbursts over southeastern central Indiana, with property and crop damage in west-central Jennings County. Much needed downpours from the 20th's scattered evening storms also included damaging winds in Indian Heights (Howard Co.) and a few Marion County neighborhoods. A very brief **EFO** landspout tornado on the 22nd, amid rather benign showers, caused superficial damage to a pole barn in Yorktown (Delaware Co.).

Through the 27th's daytime, **Helene** followed a curved track while weakening, plowing across the Southeast from near Atlanta, GA, through central Kentucky and into far southwestern Indiana. Monthly record low barometric pressure readings occurred across nearly all of Georgia, Tennessee and Kentucky, and into southern Indiana. Over portions of the local region, resultant, steadily increasing gradient winds reached severe magnitude within a 3-hour early evening period. Trees and poles were uprooted or snapped in at least 12 of central Indiana's 39 counties, with a focus up the I-65 corridor in a broadening swath up to the northern Indianapolis Metro Area. Trees were downed into homes in Boone, Marion, and Putnam County where one person was injured. Severe gusts were recorded in Bartholomew and Owen Counties, as well as at Indianapolis where a sustained wind of 47 mph was observed, and the peak gust of **68 mph was one of the highest in the airport's 50-year wind record**. Evansville, IN measured a minimum sea level pressure of **29.19"**, **setting a state-wide record** for the month of September. Indianapolis' 29.32" minimum fell short of the city's September record (29.32" from 9/25/1941).

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

October 2024 Outlook

The official outlook for October 2024 from the Climate Prediction Center indicates equal chances of above, below, or near normal temperatures. The normal October temperature at Indianapolis is **55.5** degrees.

The outlook also indicates slightly greater chances of below normal precipitation for the region. The normal October precipitation at Indianapolis is **3.22"**.

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