



July 2024 Monthly Summary

August 2, 2024
7:19 PM

Independence Day 2024 was marked by rounds of showers and thunderstorms on the 3rd and 4th which produced heavy rain and a few instances severe weather. Around two to four inches of rain fell on much of southern Indiana (a [CoCoRaHS](#) volunteer rainfall observer near Birdseye measured 5.20”), helping to put an end to moderate drought conditions. Severe weather was sparse with this activity, but there were a couple of small tornadoes on the 4th: one near Crandall in Harrison County, IN, and one about three miles southwest of downtown Louisville.

While southwestern Indiana and west central Kentucky received adequate rainfall during the month, the faucet slowed to a drip in the Blue Grass. Moderate drought developed by mid-month, with corn beginning to curl by late July.



Roof damage at Calvary Baptist Church in Louisville after an EF-1 tornado on the 4th





Averages, Departures, & Records

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Station Values

	Average Temperature	Departure from Normal	Precipitation	Departure from Normal	Snow	Departure from Normal
Bowling Green	80.1°	+0.4°	7.86"	+3.60"	0"	0"
Frankfort	77.8°	+0.6°	3.04"	-1.65"		
Lexington	78.9°	+2.2°	3.99"	-1.13"	0"	0"
Louisville Ali	80.3°	+0.4°	5.91"	+1.86"	0"	0"
Louisville Bowman	77.6°	-1.0°	5.26"	+0.70"		

Records

- 4th: Warm low of 77° at Bowling Green
- 15th: Warm low of 79° at Louisville
- 16th: Warm low of 74° at Frankfort

Source: [NWS Louisville Climate](#)

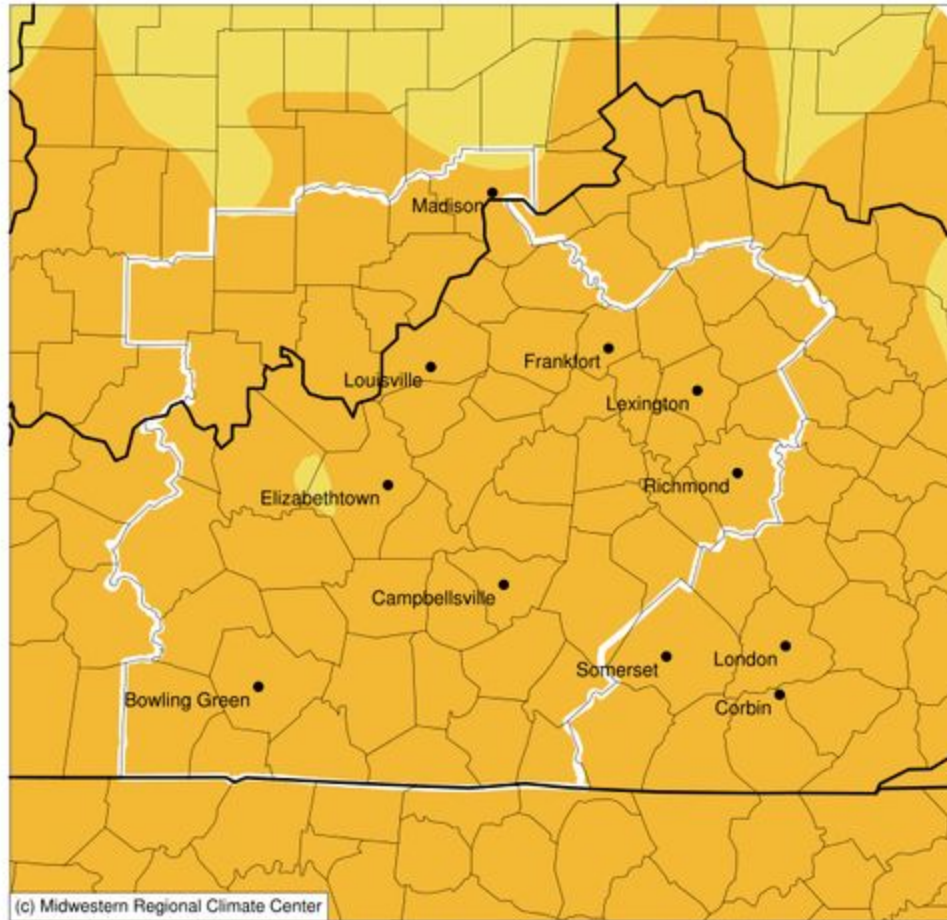




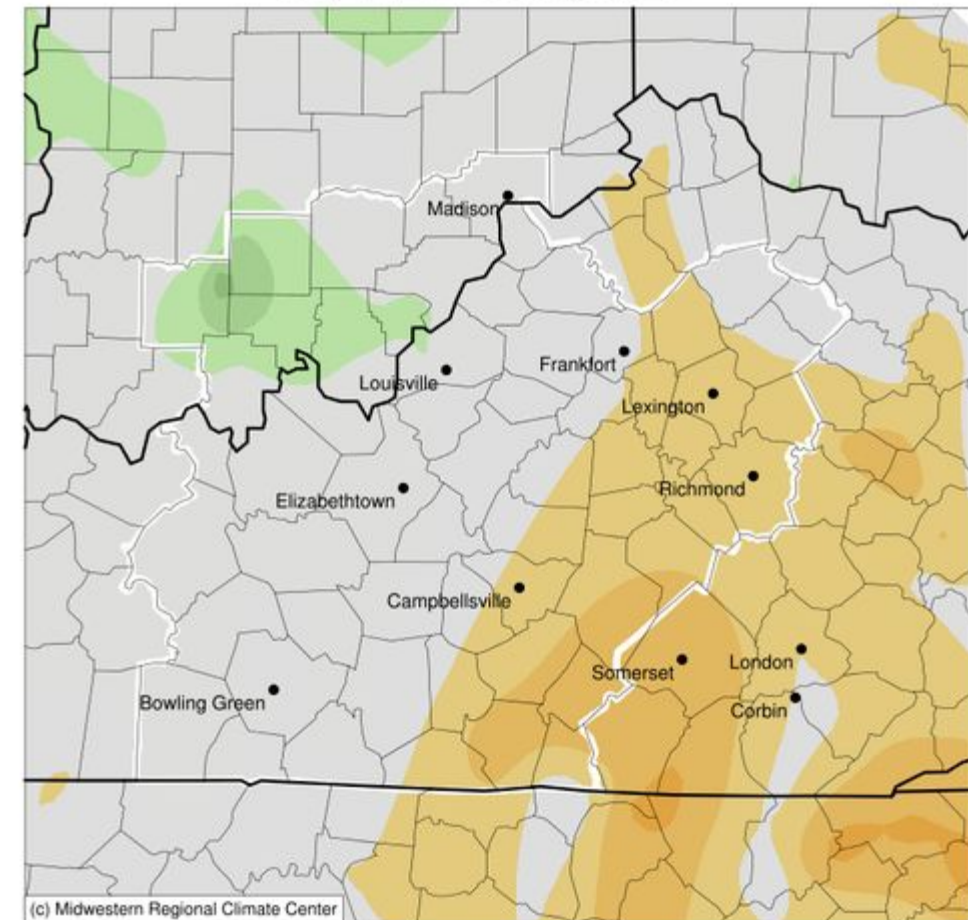
Temperature Maps

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Average Temperature (°F)
July 01, 2024 to July 31, 2024

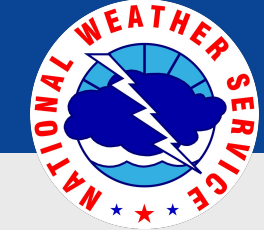


Average Temperature (°F): Departure from 1991-2020 Normals
July 01, 2024 to July 31, 2024



Source: [MRCC](#)

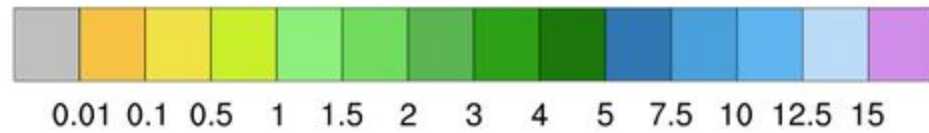
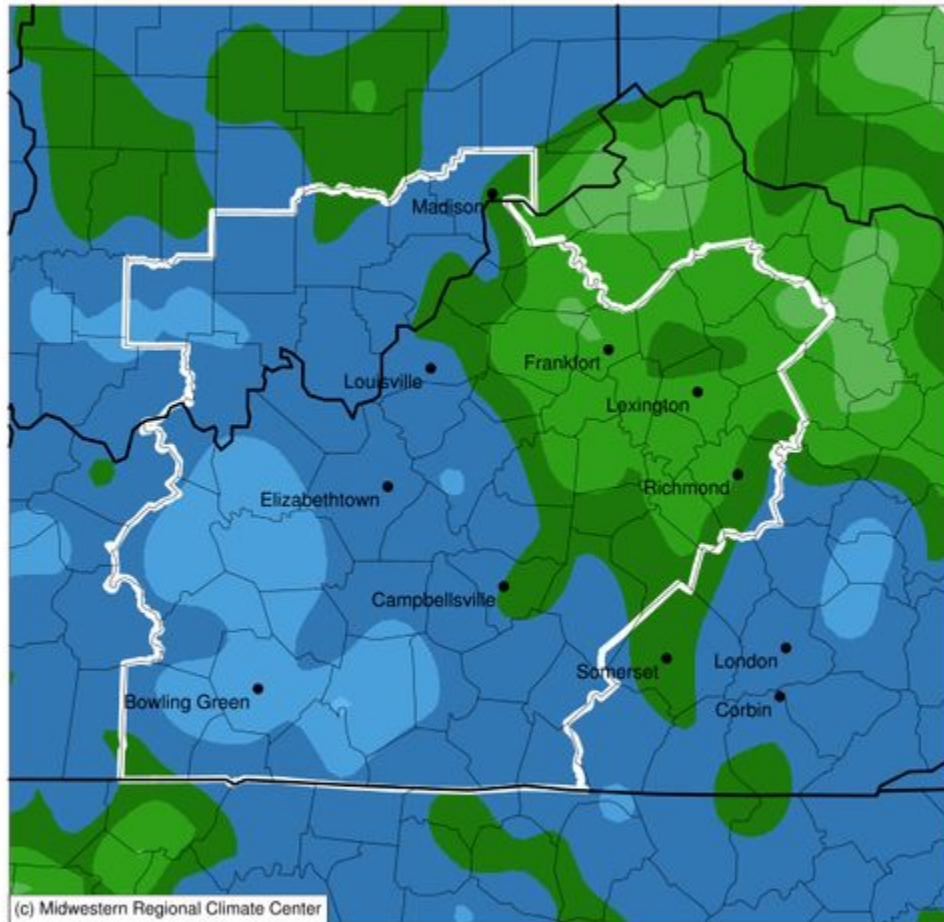




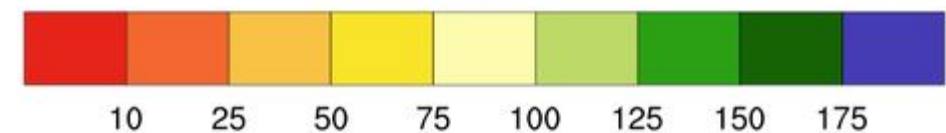
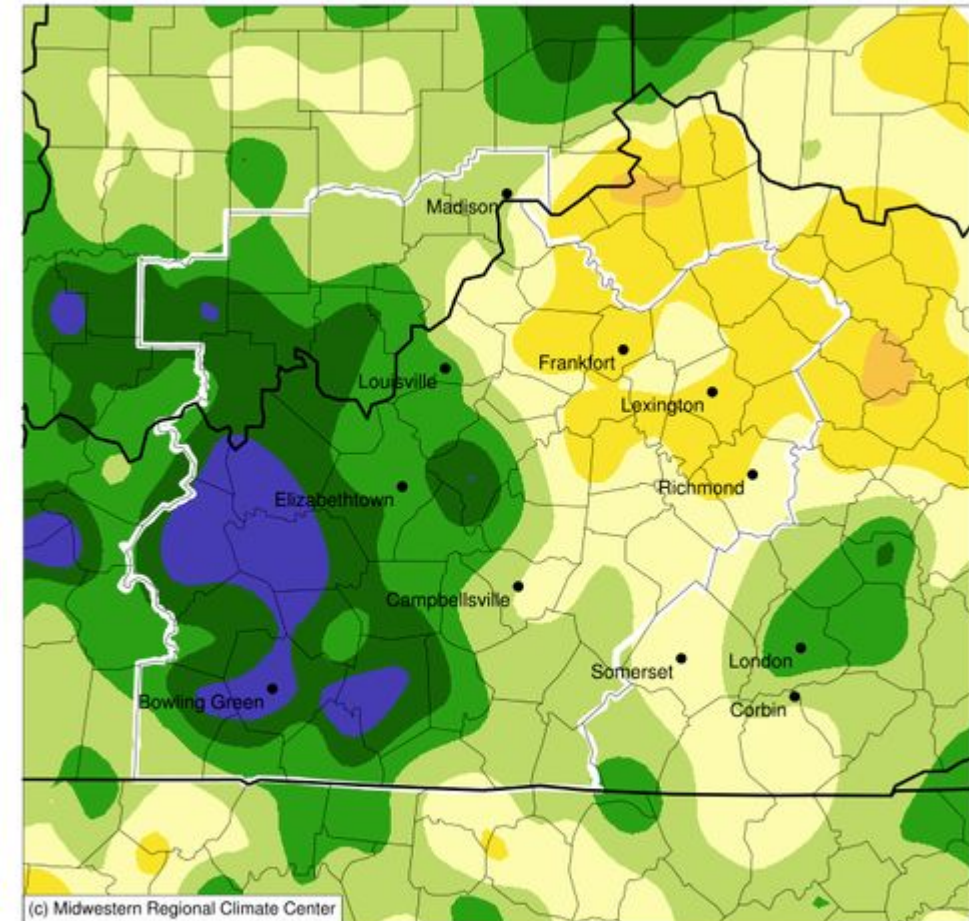
Precipitation Maps

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Accumulated Precipitation (in)
July 01, 2024 to July 31, 2024

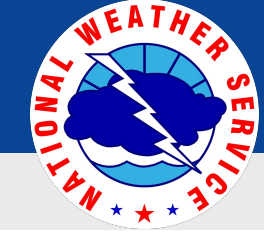


Accumulated Precipitation (in): Percent of 1991-2020 Normals
July 01, 2024 to July 31, 2024



Source: [MRCC](#)

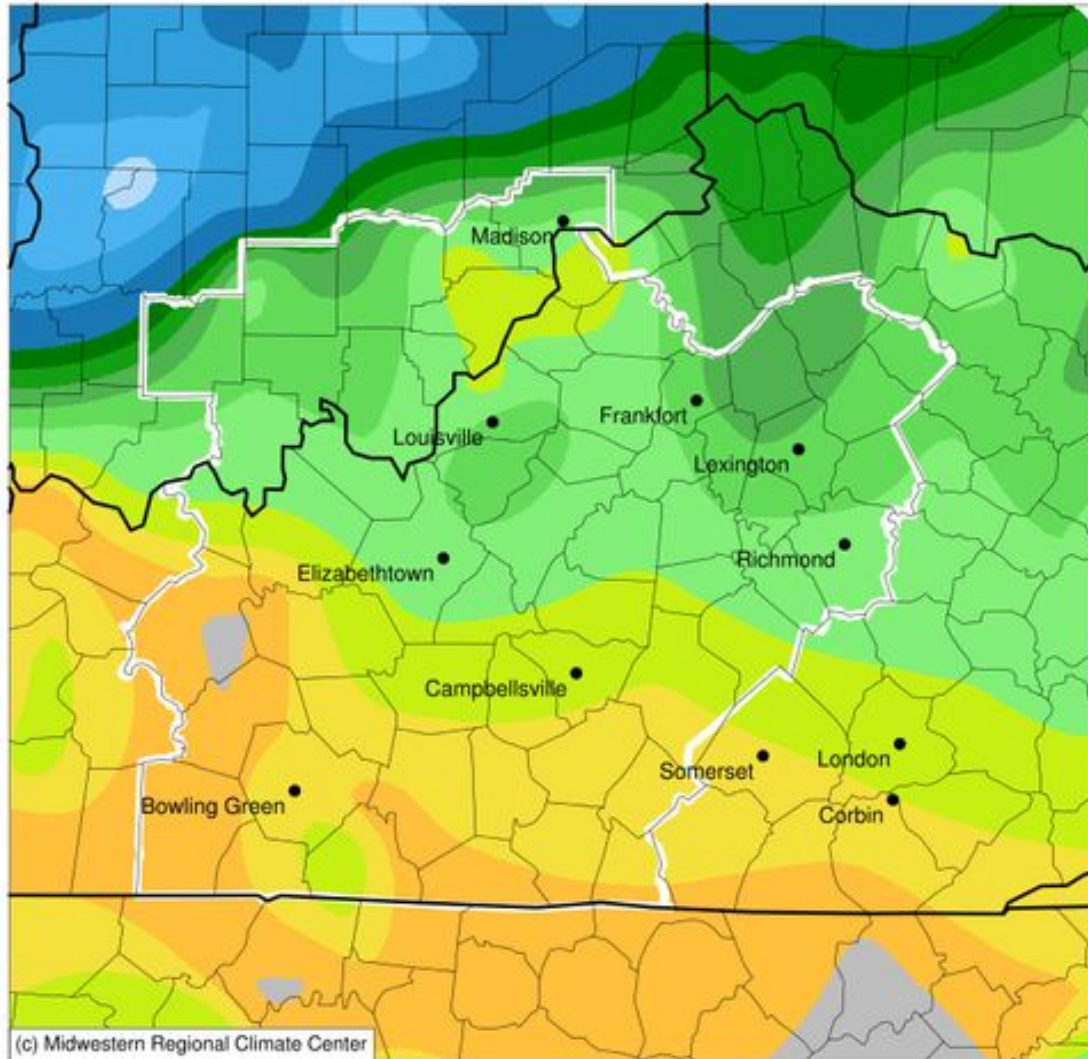




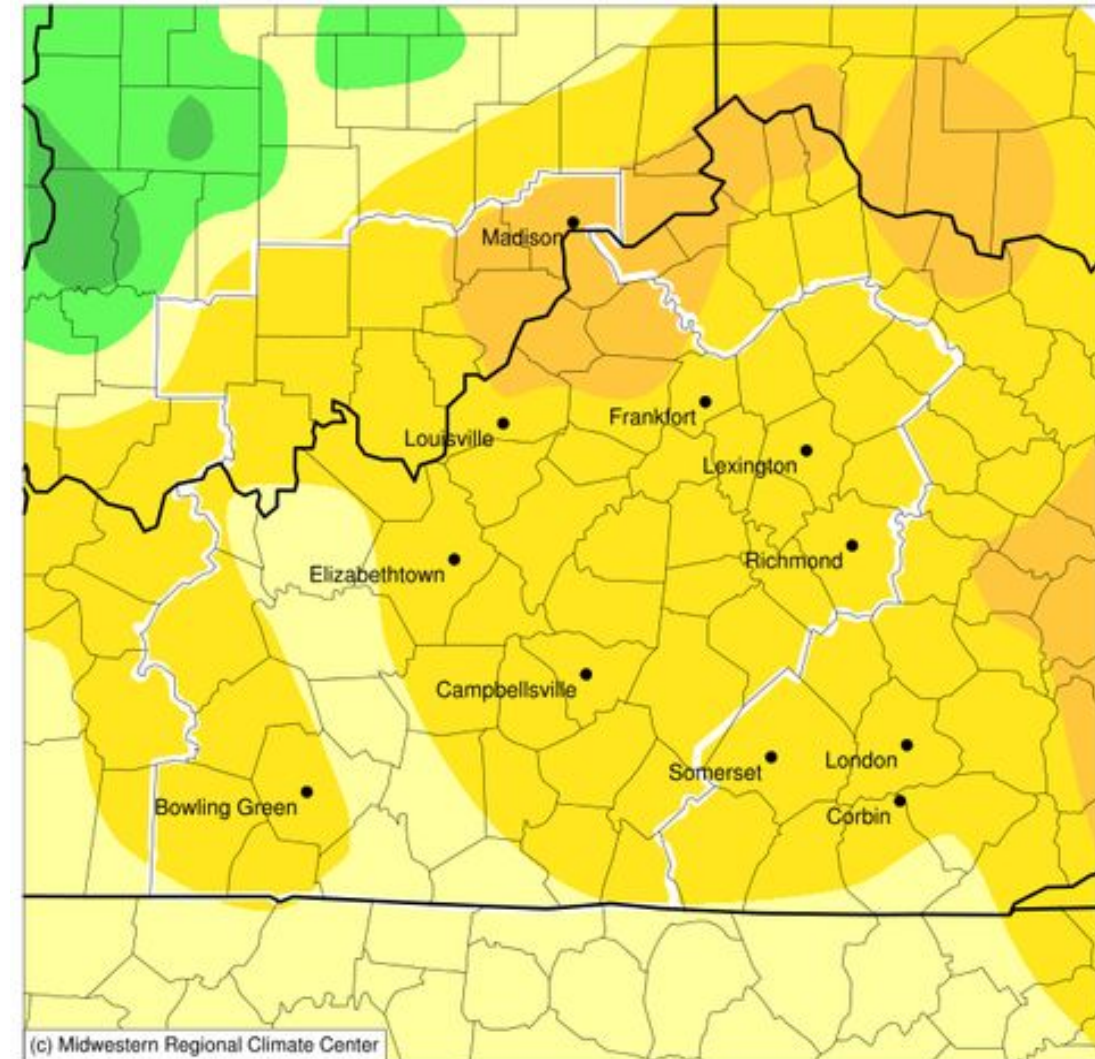
Snowfall Maps

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Accumulated Snowfall (in)
February 01, 2024 to February 29, 2024



Accumulated Snowfall (in): Departure from 1991-2020 Normals
February 01, 2024 to February 29, 2024



Source: [MRCC](#)



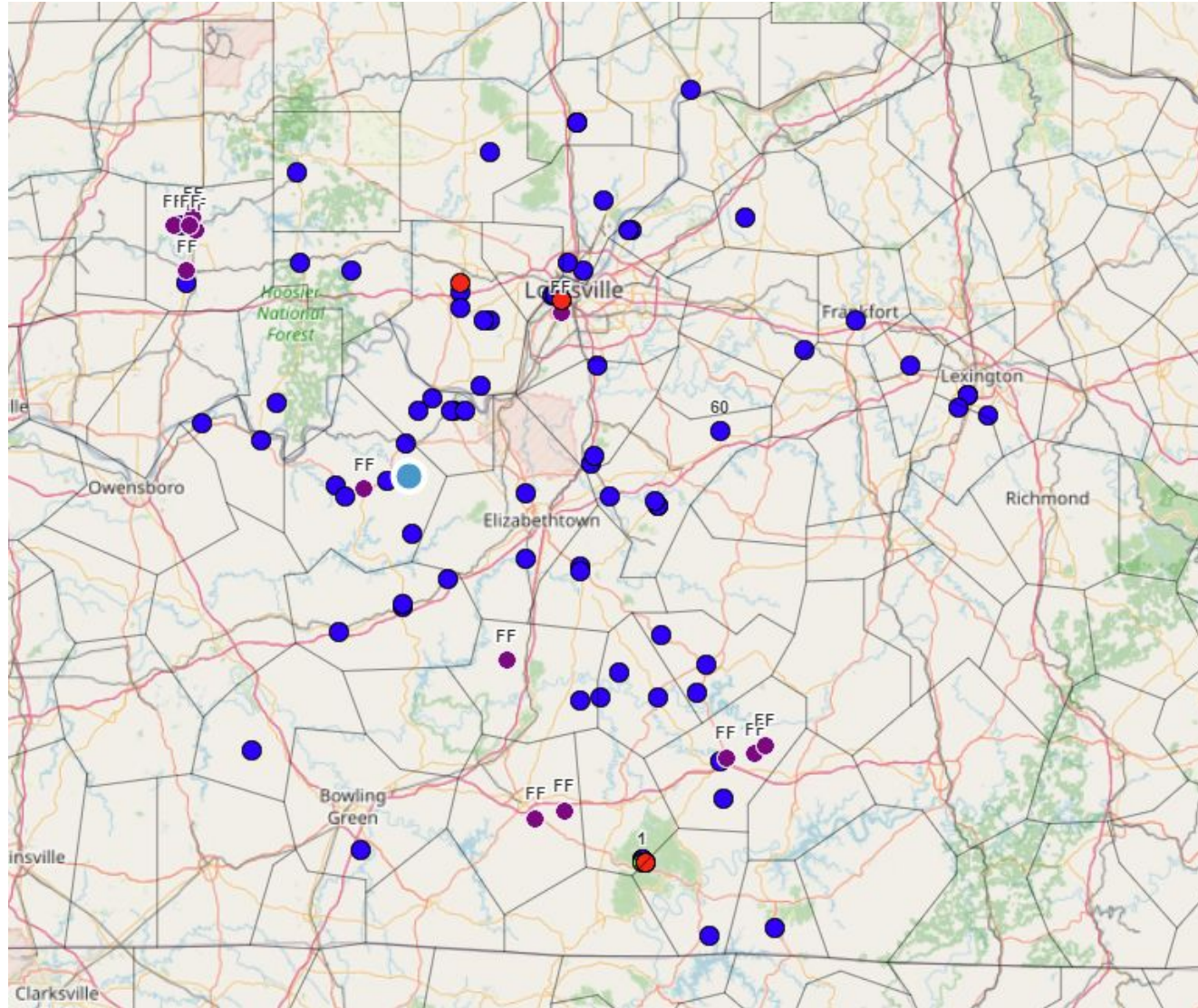


Preliminary Severe Weather Reports

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July 1-31, 2024

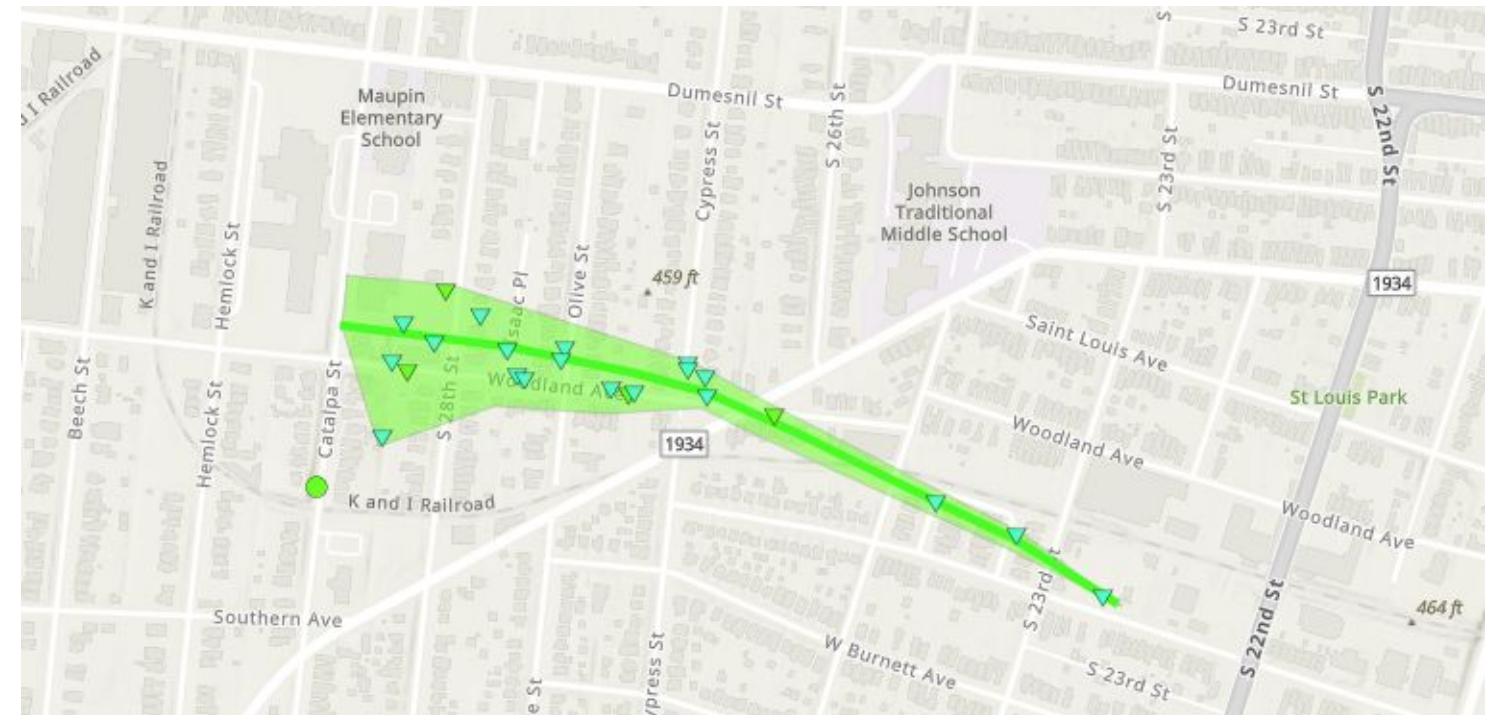
Source: [NWS Severe Verification Helper](#)



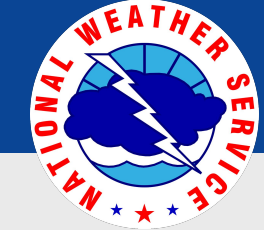
● Wind ● Hail ● Tornado ● Flash Flood

On the 4th a squall line spun up a small EF-1 tornado that traveled half a mile through the west side of Louisville. The twister did most of its damage along Woodlawn Avenue between Catalpa Street and Wilson Avenue. Most of the damage was to trees, one of which fell onto a resident's truck.

While most of the month was fairly quiet with regards to severe weather, the atmospheric pattern became more active from the 29th to the 31st with thunderstorms each day. Several storms produced straight-line wind damage, especially on the 30th.

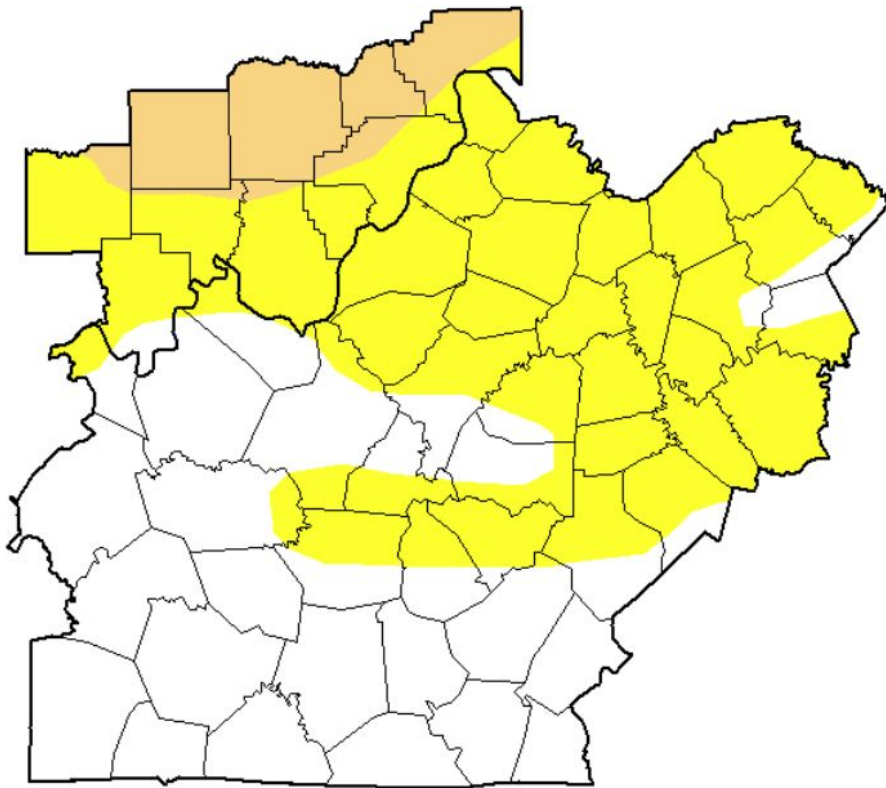


Track of the Louisville tornado on the 4th in the Parkland and Park Hill neighborhoods.

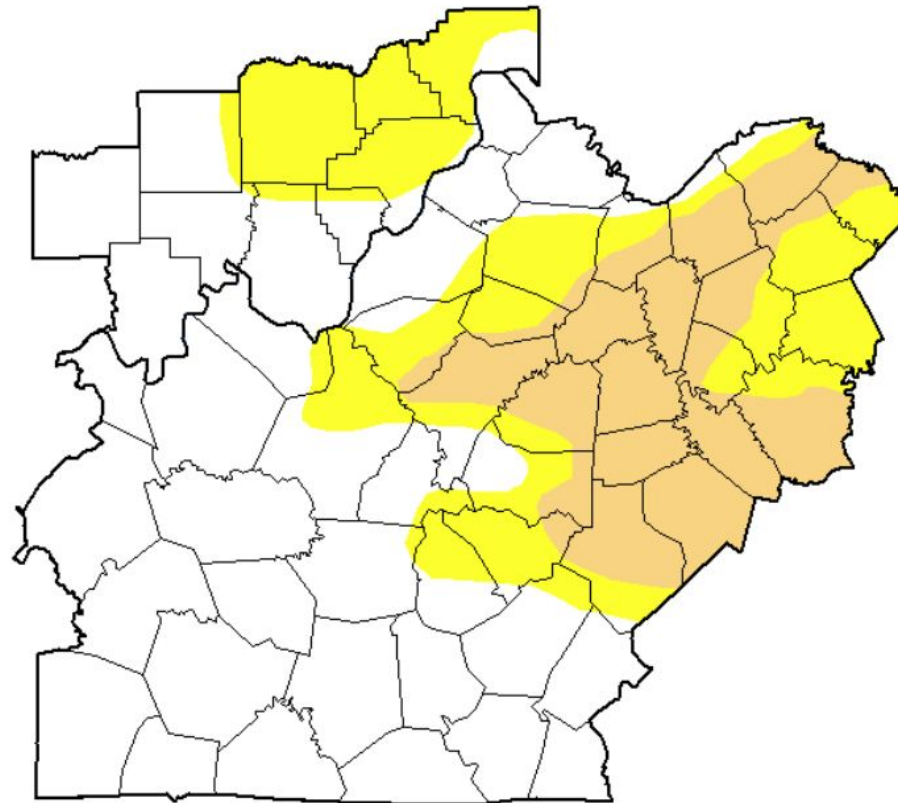


U.S. Drought Monitor Maps & Class Change

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July 2, 2024



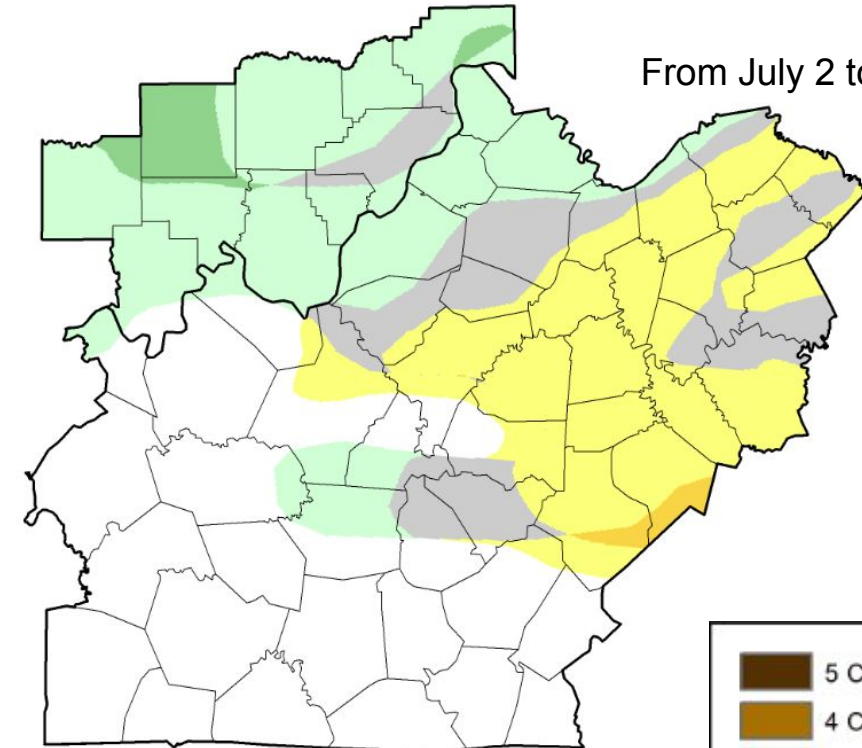
July 30, 2024

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

U.S. Drought Monitor Class Change - Louisville, KY WFO
4 Week

From July 2 to July 30



- 5 Class Degradation
- 4 Class Degradation
- 3 Class Degradation
- 2 Class Degradation
- 1 Class Degradation
- No Change
- 1 Class Improvement
- 2 Class Improvement
- 3 Class Improvement
- 4 Class Improvement
- 5 Class Improvement

Source: [USDM](#)



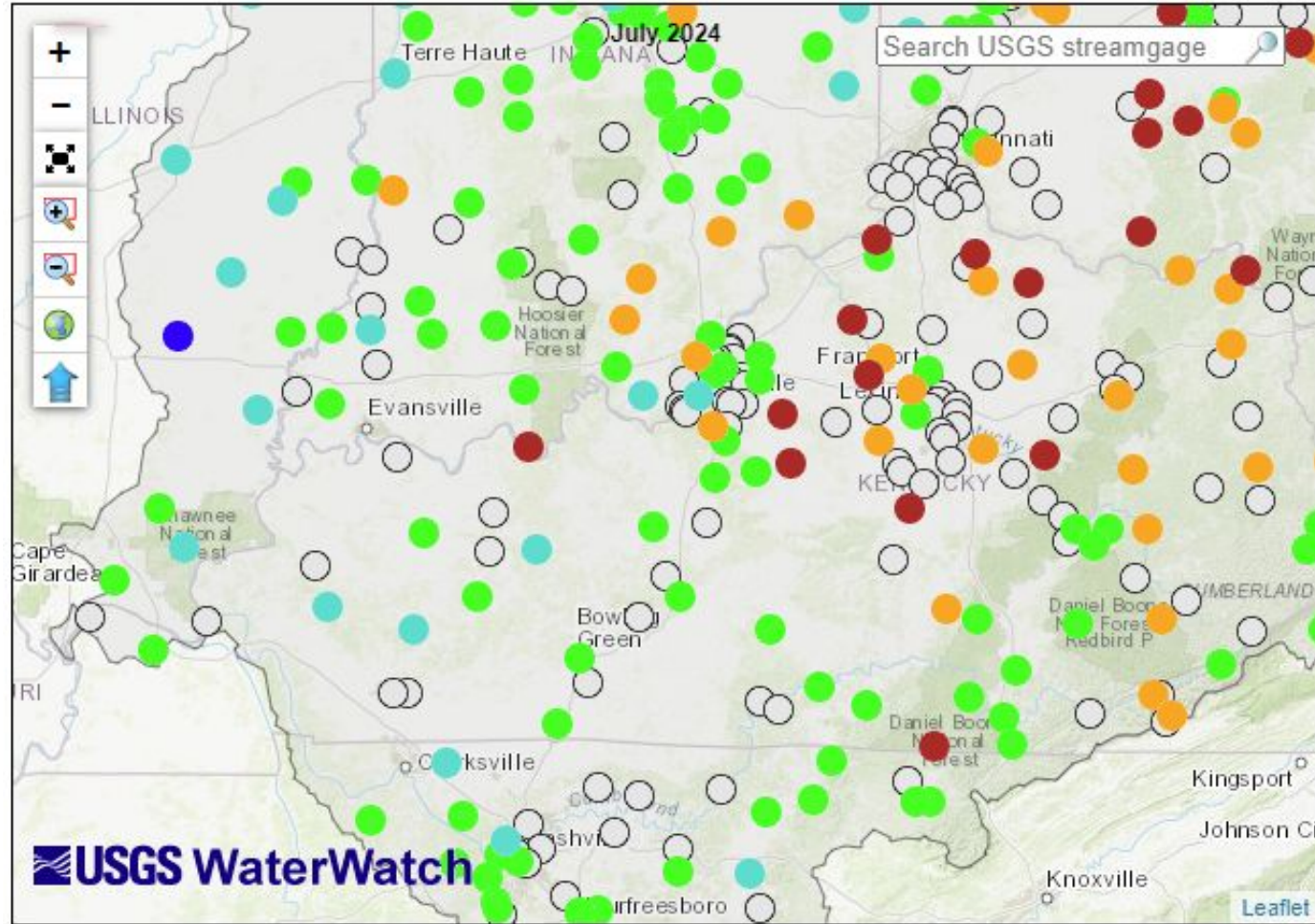


Monthly Streamflow Anomalies for the Ohio Valley

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July 2024

Map of monthly average streamflow compared to historical streamflow for the month of the year



Streamflows decreased markedly from southeast Indiana into the Kentucky Blue Grass as moderate drought set in. Meanwhile, frequent rains primarily along and west of I-65 kept most flows near or even above normal.

Source: [USGS](#)

Explanation - Percentile classes							
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked



CPC Monthly Outlook - August 2024

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Odds are leaning toward a warmer than normal August. There is no clear signal regarding precipitation.



Monthly Precipitation Outlook



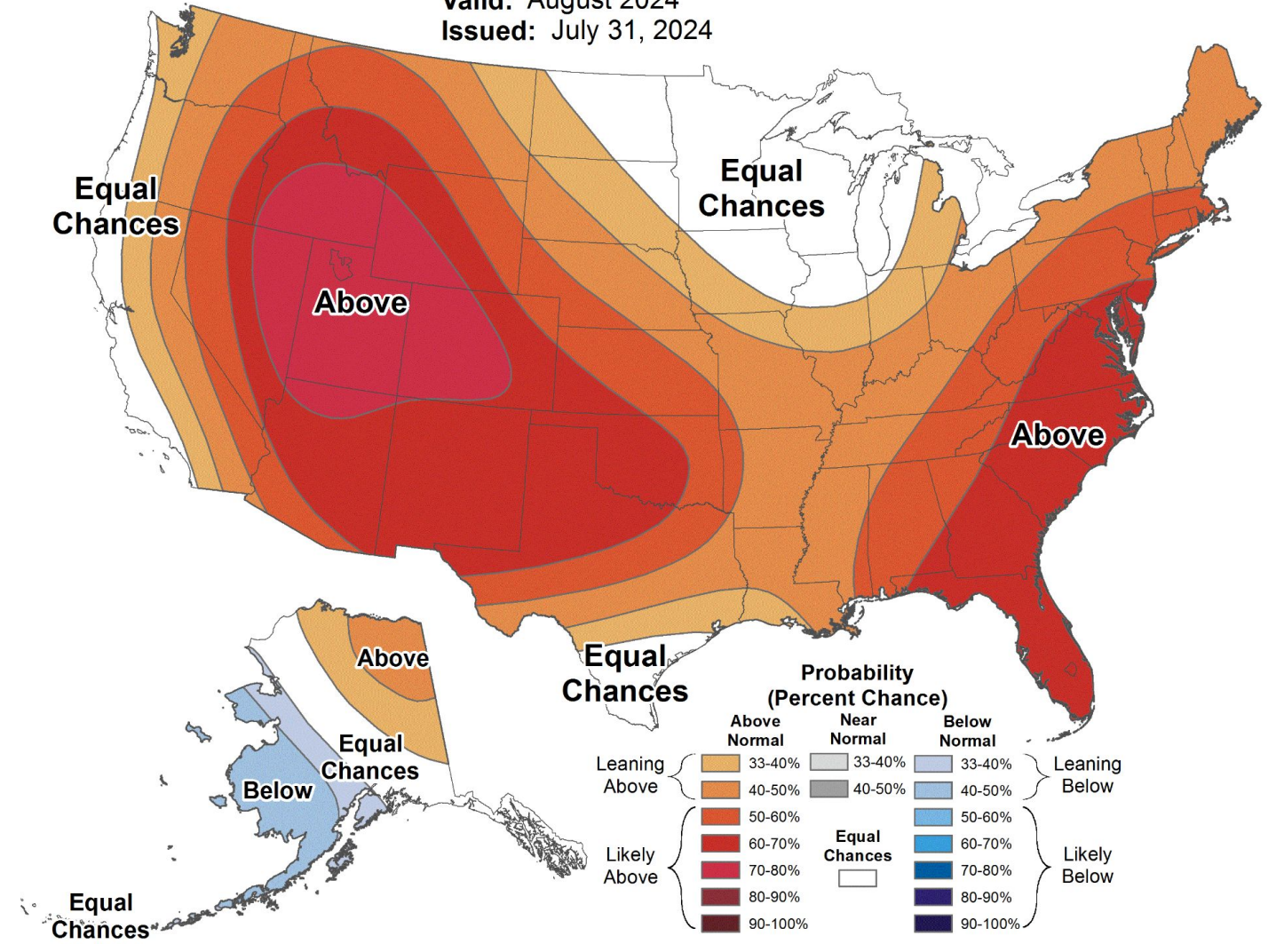
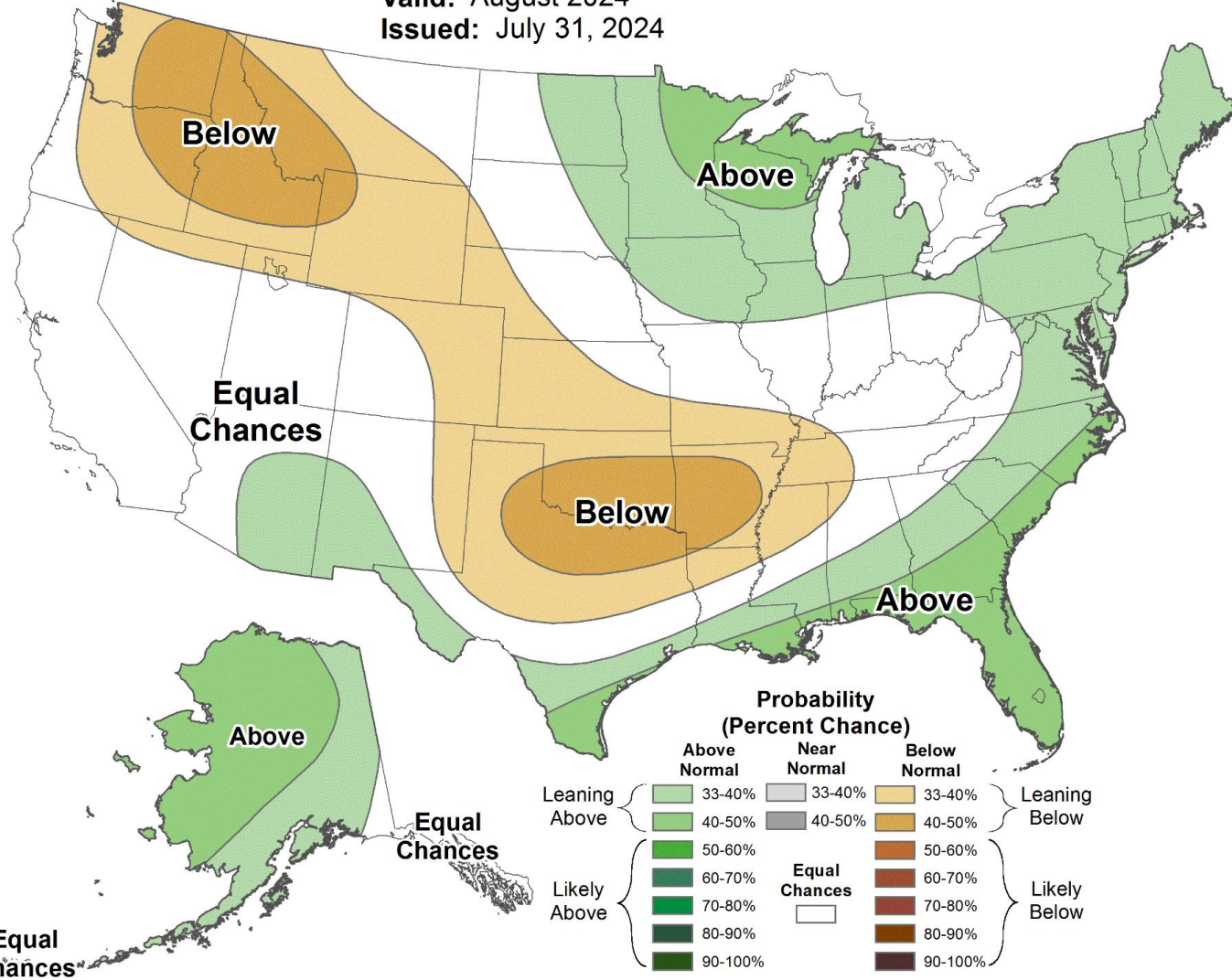
Valid: August 2024
Issued: July 31, 2024



Monthly Temperature Outlook



Valid: August 2024
Issued: July 31, 2024



Source: [Climate Prediction Center, NOAA](https://www.cpc.ncep.noaa.gov)

