



# May 2024 Monthly Summary

June 2, 2024  
11:24 AM

May was a stormy month across much of the middle part of the nation and the Ohio Valley was no exception:

- On the [7th](#), small showers and thunderstorms developed over southern Indiana. Despite their size, and the fact that there was hardly even any lightning in them, they managed to spin up two brief EF-0 tornadoes. One of the tiny twisters touched down in a neighborhood near Perry Crossing in Clark County, Indiana, causing damage to several homes. The southern Indiana tornadoes were on the edge of a much larger outbreak across Ohio, eastern Indiana, and southern Michigan.
- The very next day a significantly [more widespread outbreak](#) of hail, damaging winds, and tornadoes spread from Missouri through the western half of Kentucky to the Carolinas. In central Kentucky the counties of Logan, Barren, Butler, Hart, Green, and Grayson all experienced golf ball sized hail. The [Kentucky Mesonet](#) site in Adair County measured a 59 mph wind gust.
- The largest severe weather event of the month began on the 26th and lasted into the morning hours of the following day. A powerful storm system generated large hail, damaging thunderstorm winds, and tornadoes from the Ozarks through the Ohio Valley to the mid-Atlantic coast. In Kentucky, two main waves of storms passed through. Around midday on the 26th a broken squall line pivoted through the region producing occasional instances of hurricane force winds. Then from just before to just after midnight a second powerful squall line swept through. This one produced several tornadoes, including an EF-1 that was on the ground for 41 miles from Muhlenberg County to Warren County north of Bowling Green. The Meteorologist-in-Charge of NWS Louisville, who surveyed the damage path, said it was the worst EF-1 tornado he had ever surveyed, particularly because of the massive amounts of tree damage, including oaks and hickories.

The frequent storm systems also brought several bouts of rain, with southern Kentucky receiving more than 200% of its normal precipitation for the month. Not only did this eradicate the slight dryness that was present at the beginning of the month, it led to minor river flooding. Unfortunately the rain also had the negative effect of hampering farmers' abilities to get out into their fields for planting and other spring fieldwork.





# Averages, Departures, & Records

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## Station Values

	Average Temperature	Departure from Normal	Precipitation	Departure from Normal	Snow	Departure from Normal
<b>Bowling Green</b>	70.7°	+2.7°	7.26"	+2.23"	0"	0"
<b>Frankfort</b>	68.5°	+3.0°	5.48"	+0.38"		
<b>Lexington</b>	69.3°	+3.9°	5.68"	+0.24"	0"	0"
<b>Louisville Ali</b>	71.9°	+3.6°	6.07"	+0.89"	0"	0"
<b>Louisville Bowman</b>	68.8°	+1.6°	6.31"	+1.15"		

## Records

- 4th: Warm low of 65° at Frankfort
- 15th: Precipitation of 2.06" at Lexington
- 9th warmest May on record at Frankfort
- 10th warmest May on record at Lexington

Source: [NWS Louisville Climate](#)

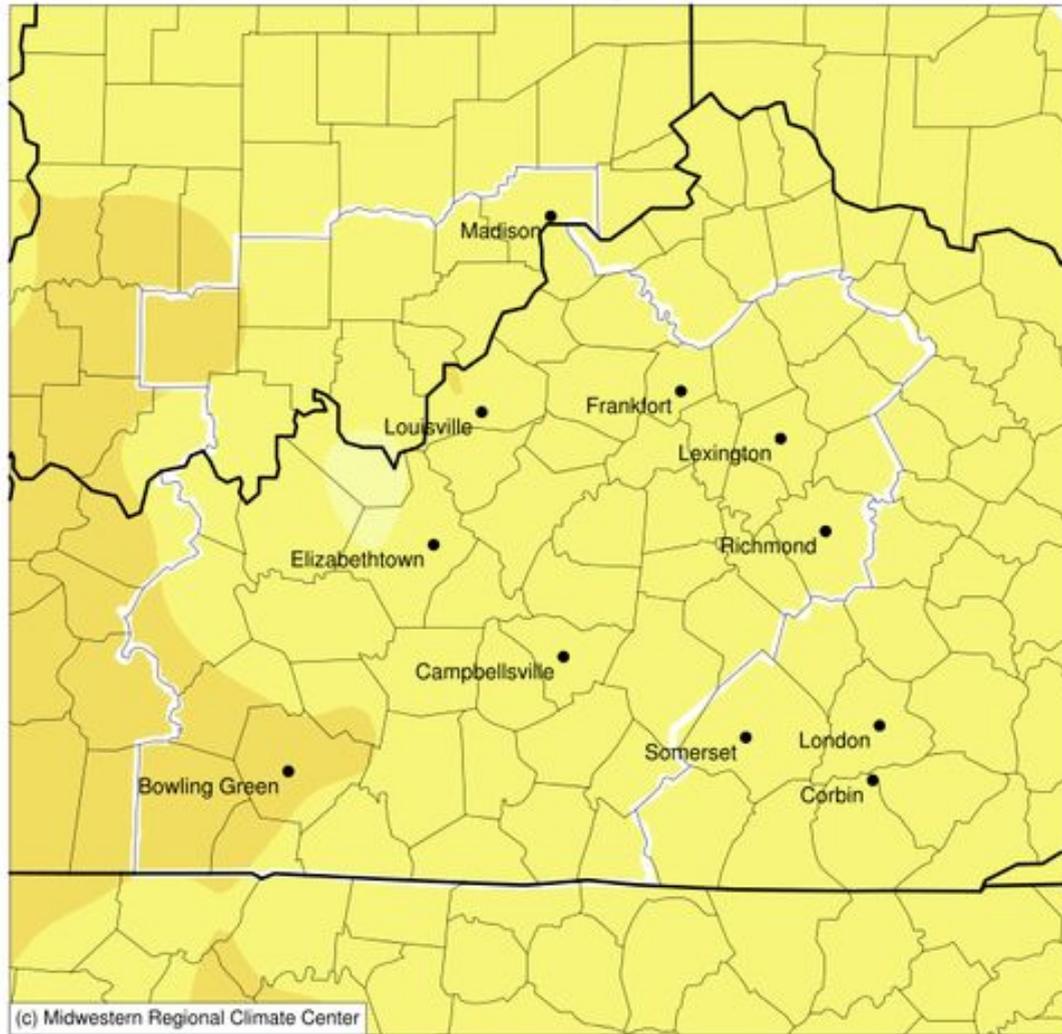




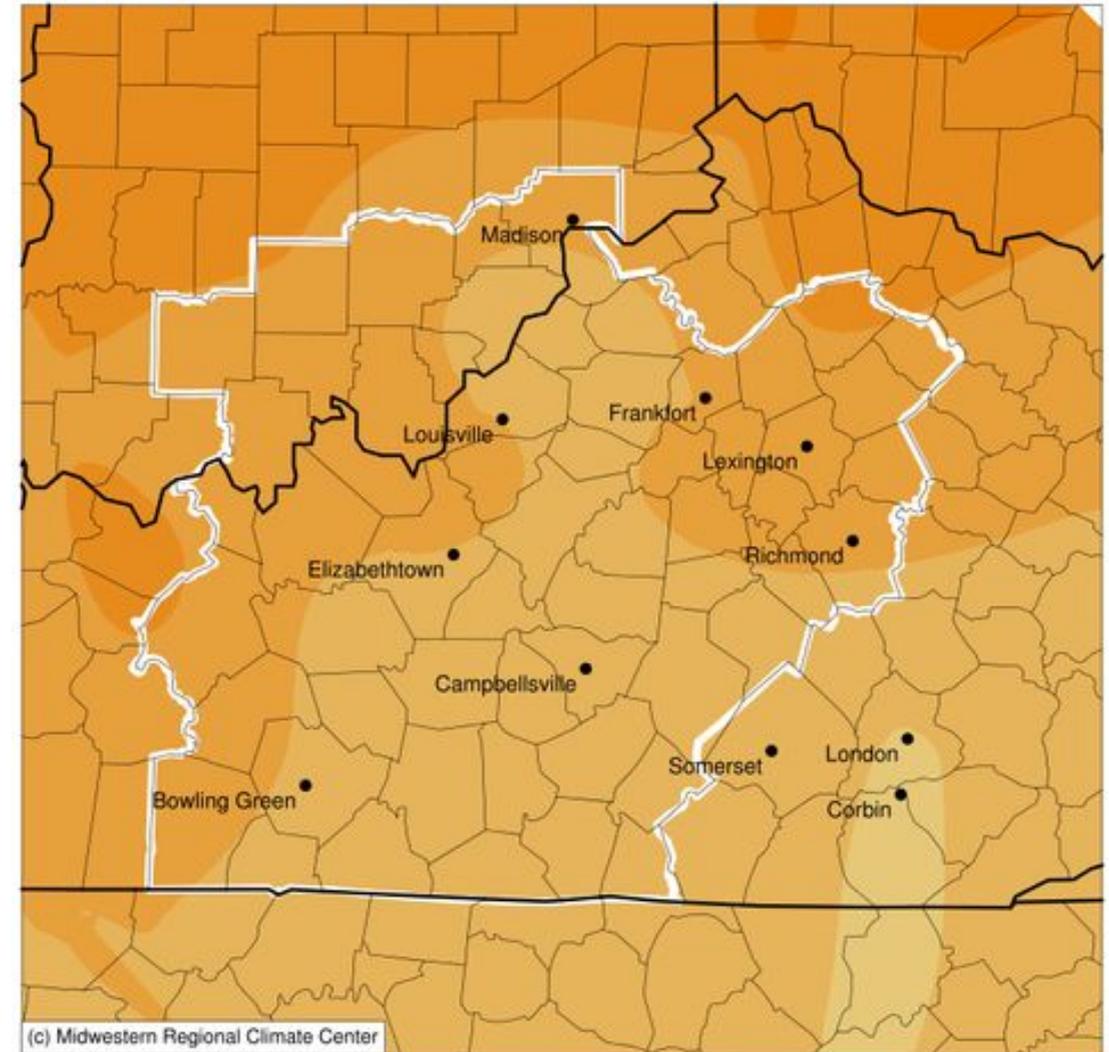
# Temperature Maps

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



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



Source: [MRCC](#)

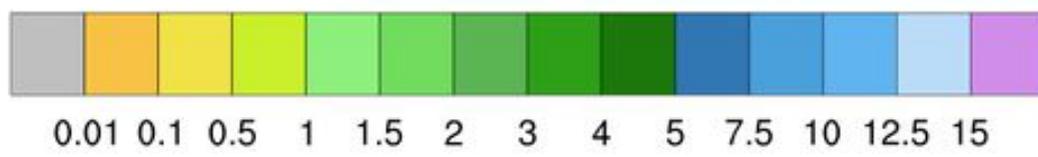
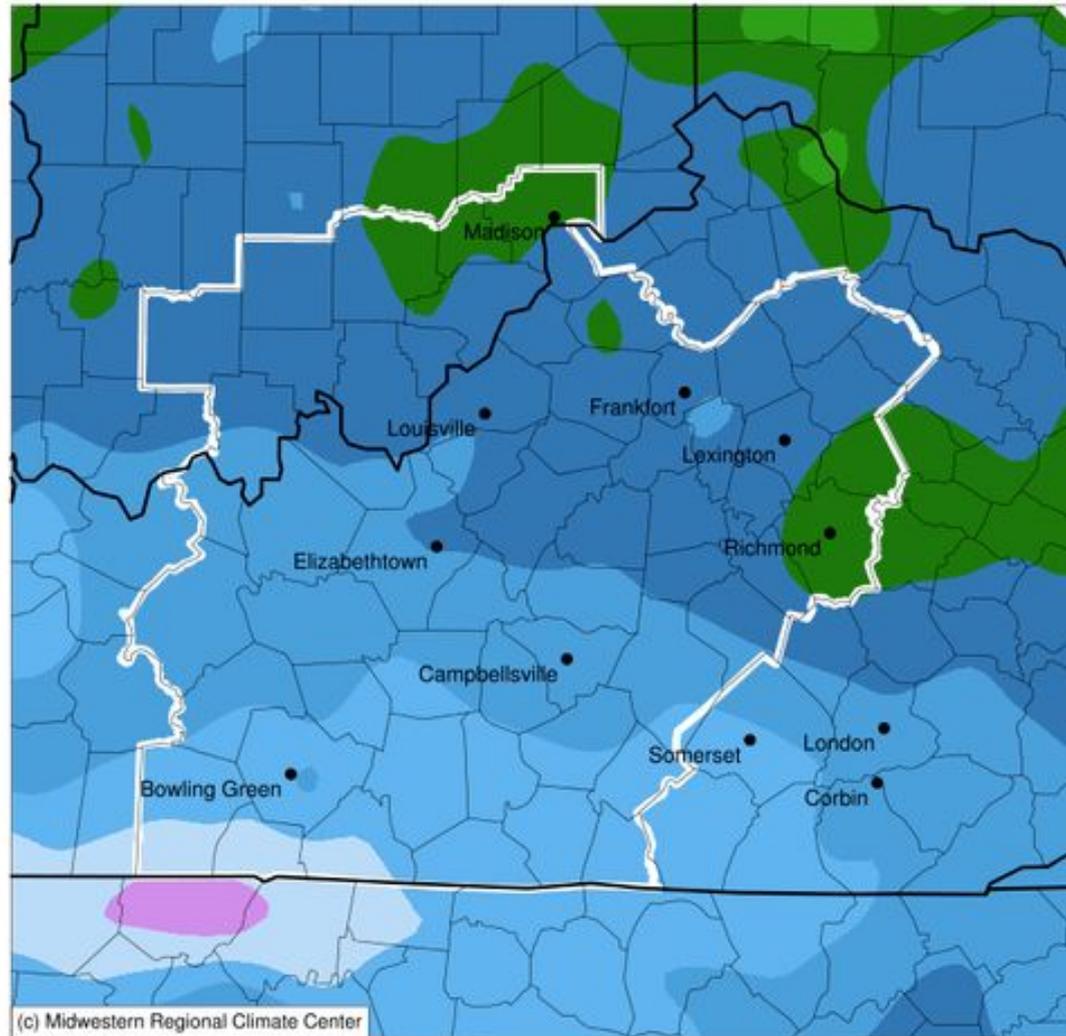




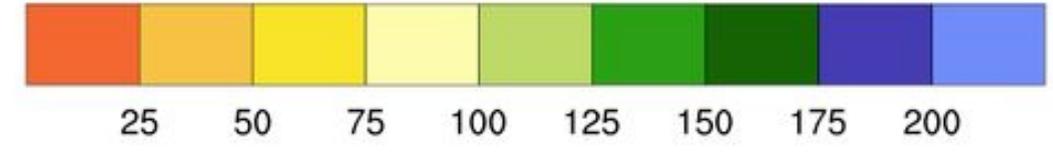
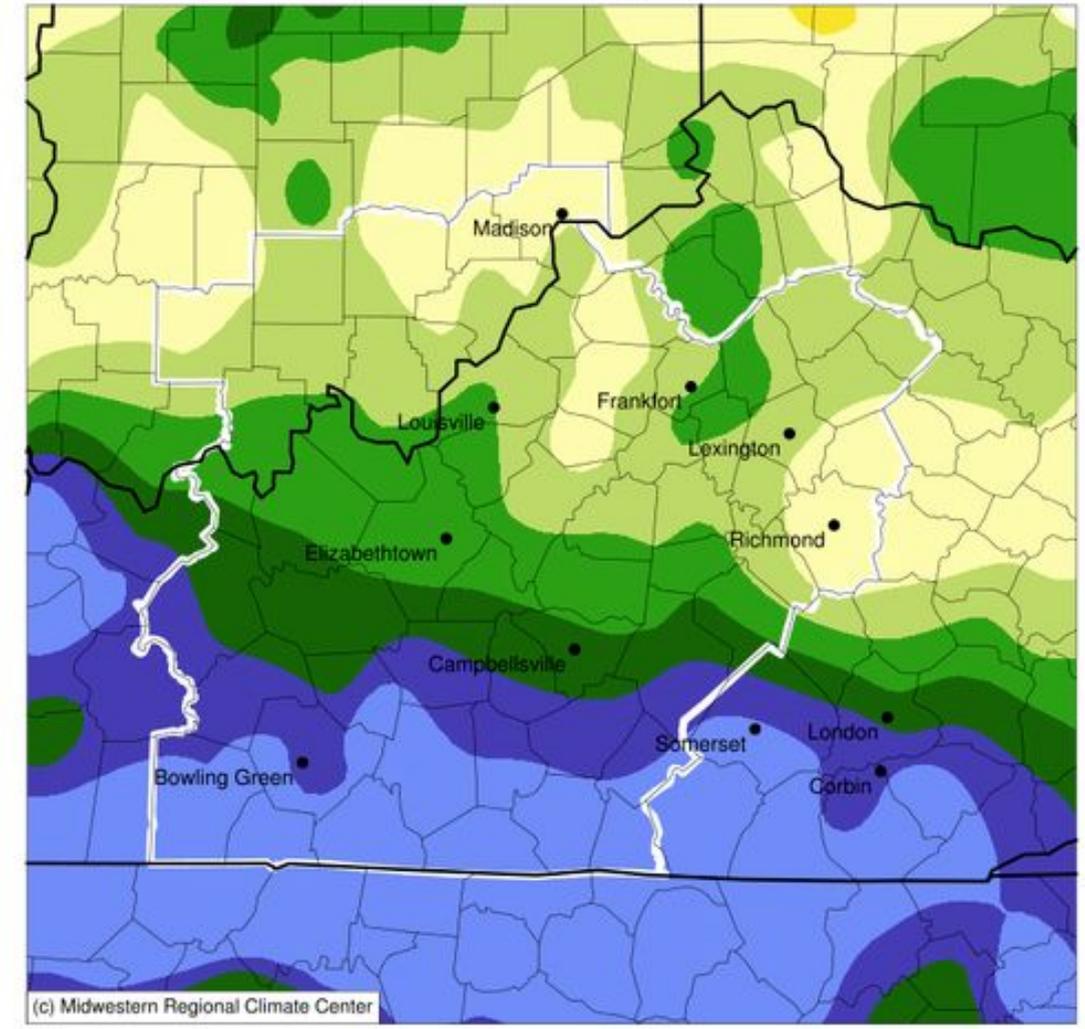
# Precipitation Maps

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**Accumulated Precipitation (in)**  
May 01, 2024 to May 31, 2024



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



Source: [MRCC](#)

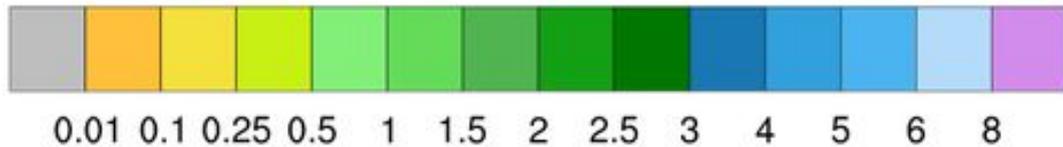
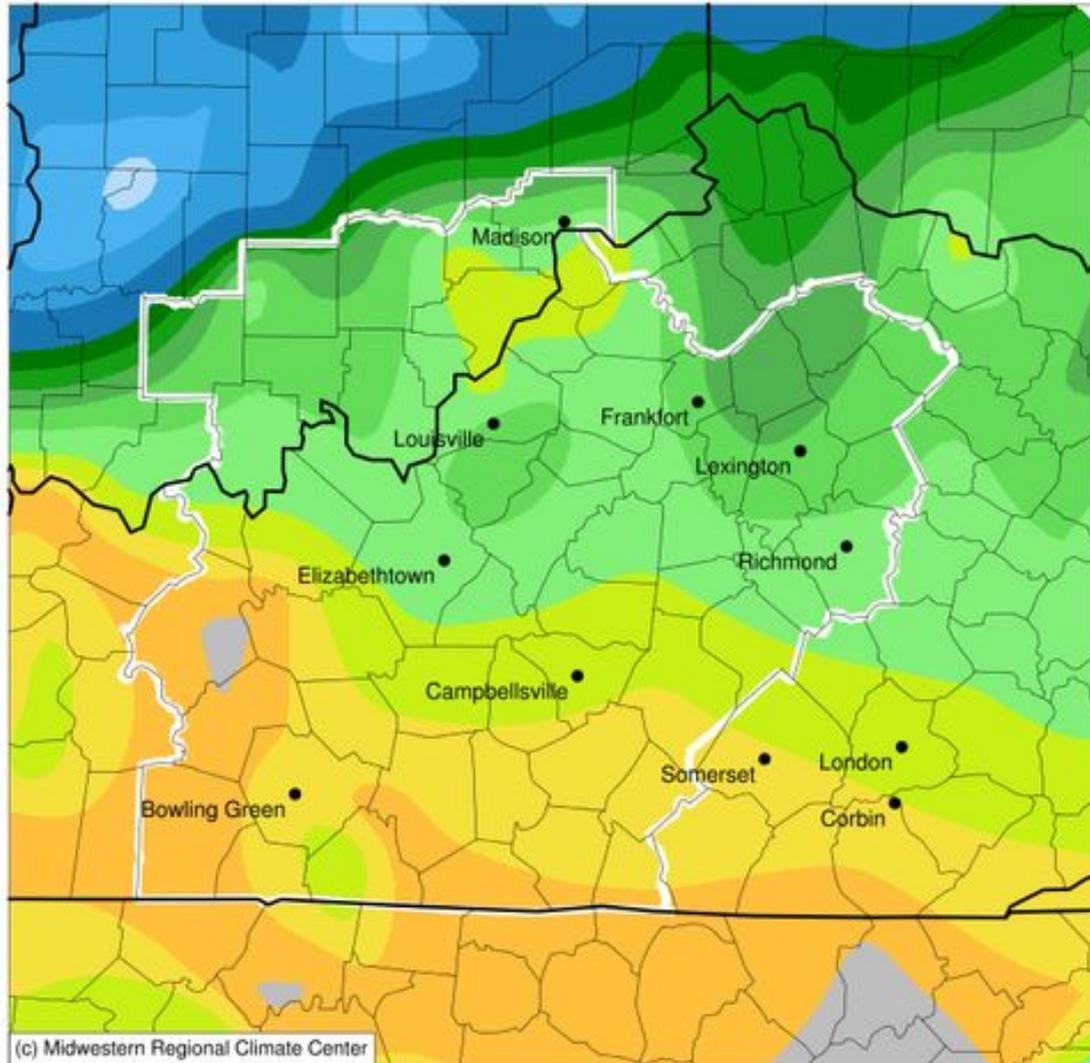




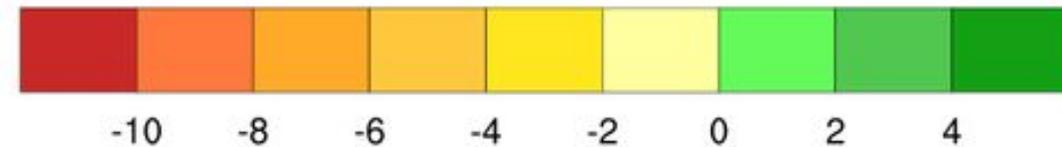
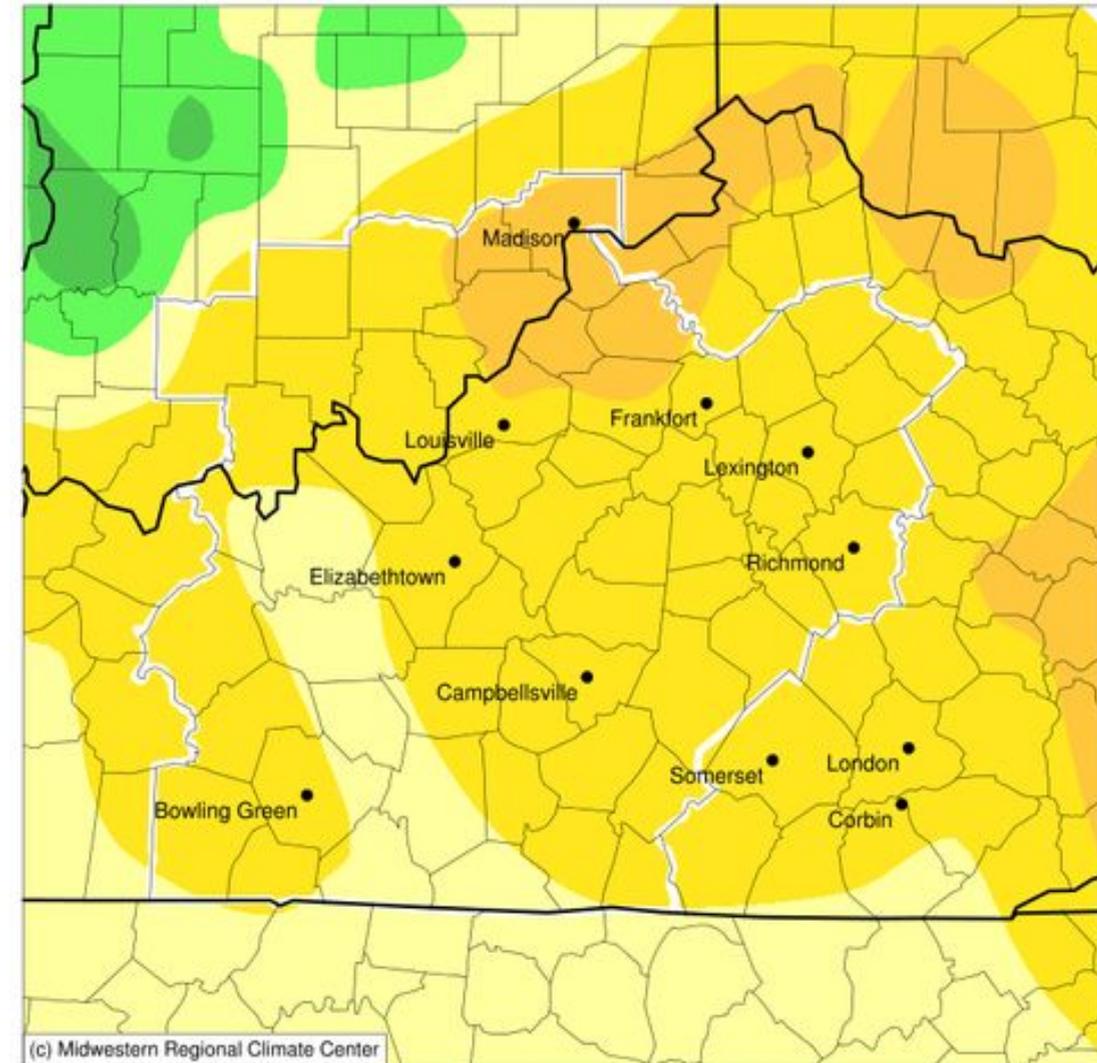
# Snowfall Maps

June 2, 2024  
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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](#)



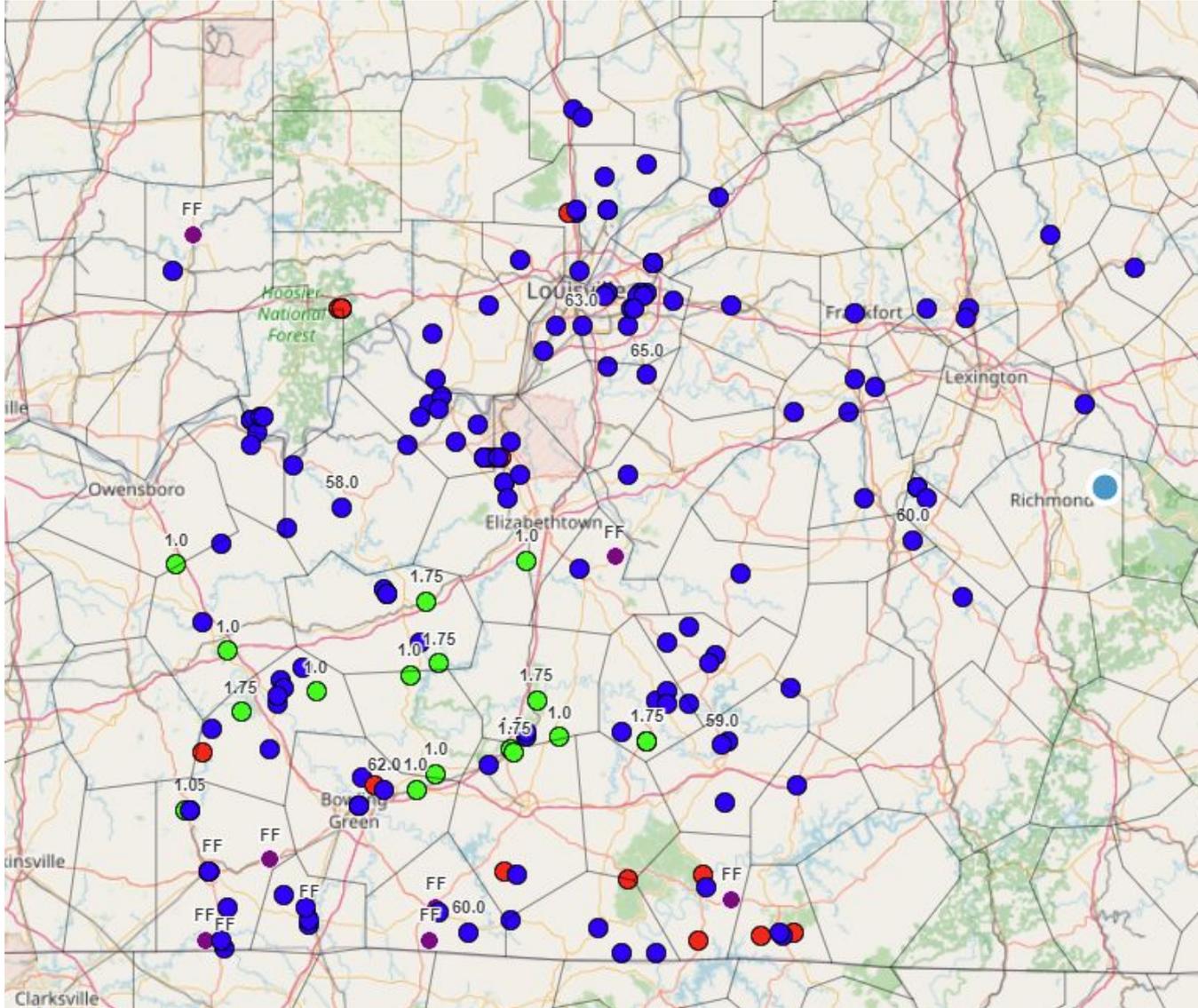


# Preliminary Severe Weather Reports

June 2, 2024  
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May 1-31, 2024

Source: [NWS Severe Verification Helper](#)



● Wind  
 ● Hail  
 ● Tornado  
 ● Flash Flood

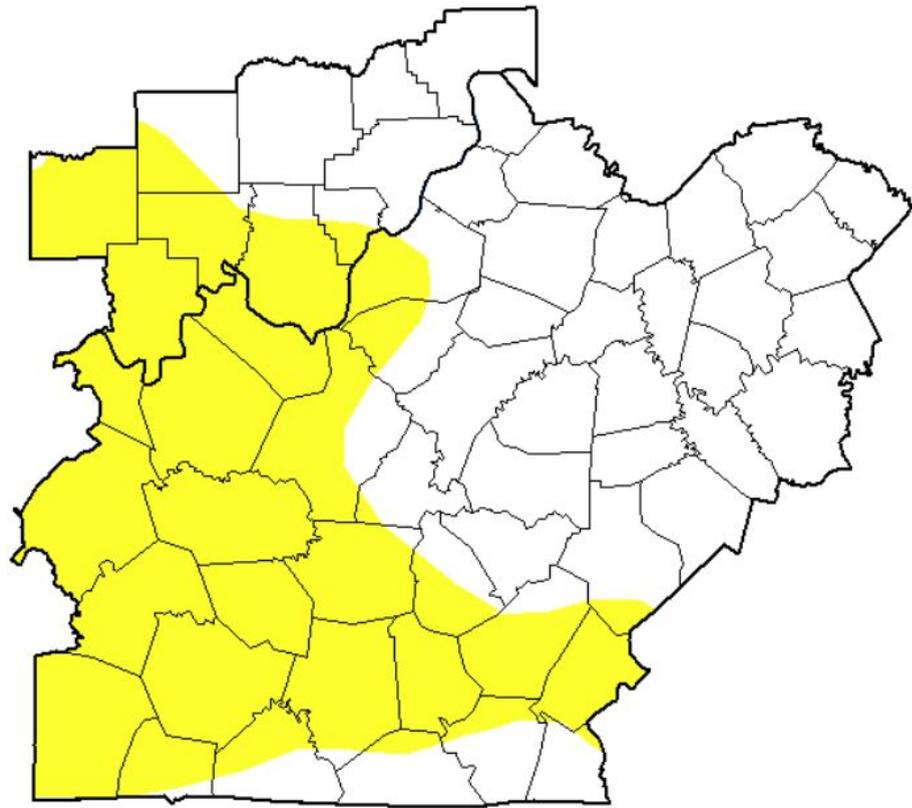
Below: 85 mph straight-line winds flipped this camper in Grayson County on the 26th.



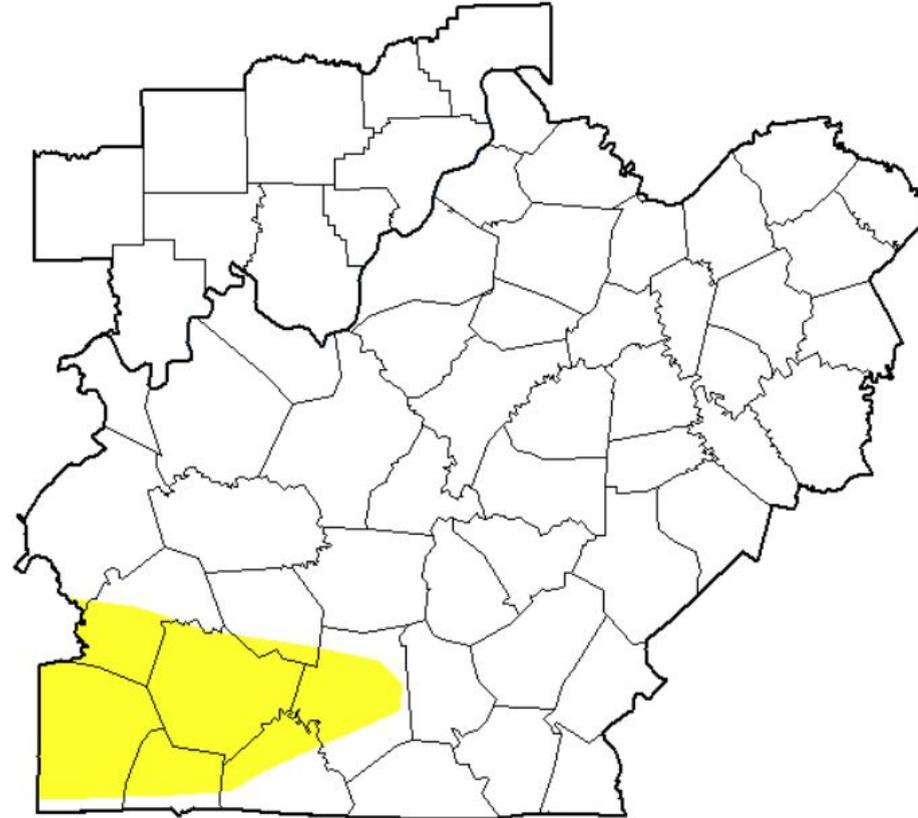


# U.S. Drought Monitor Maps & Class Change

June 2, 2024  
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April 2, 2024



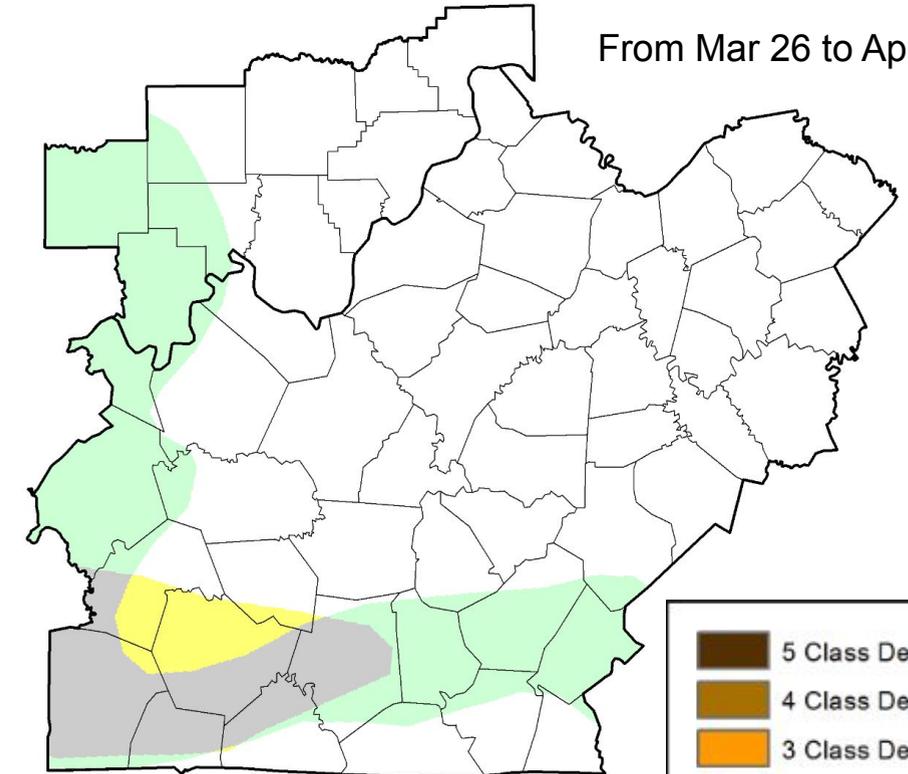
April 23, 2024

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 Mar 26 to Apr 23



- 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](#)



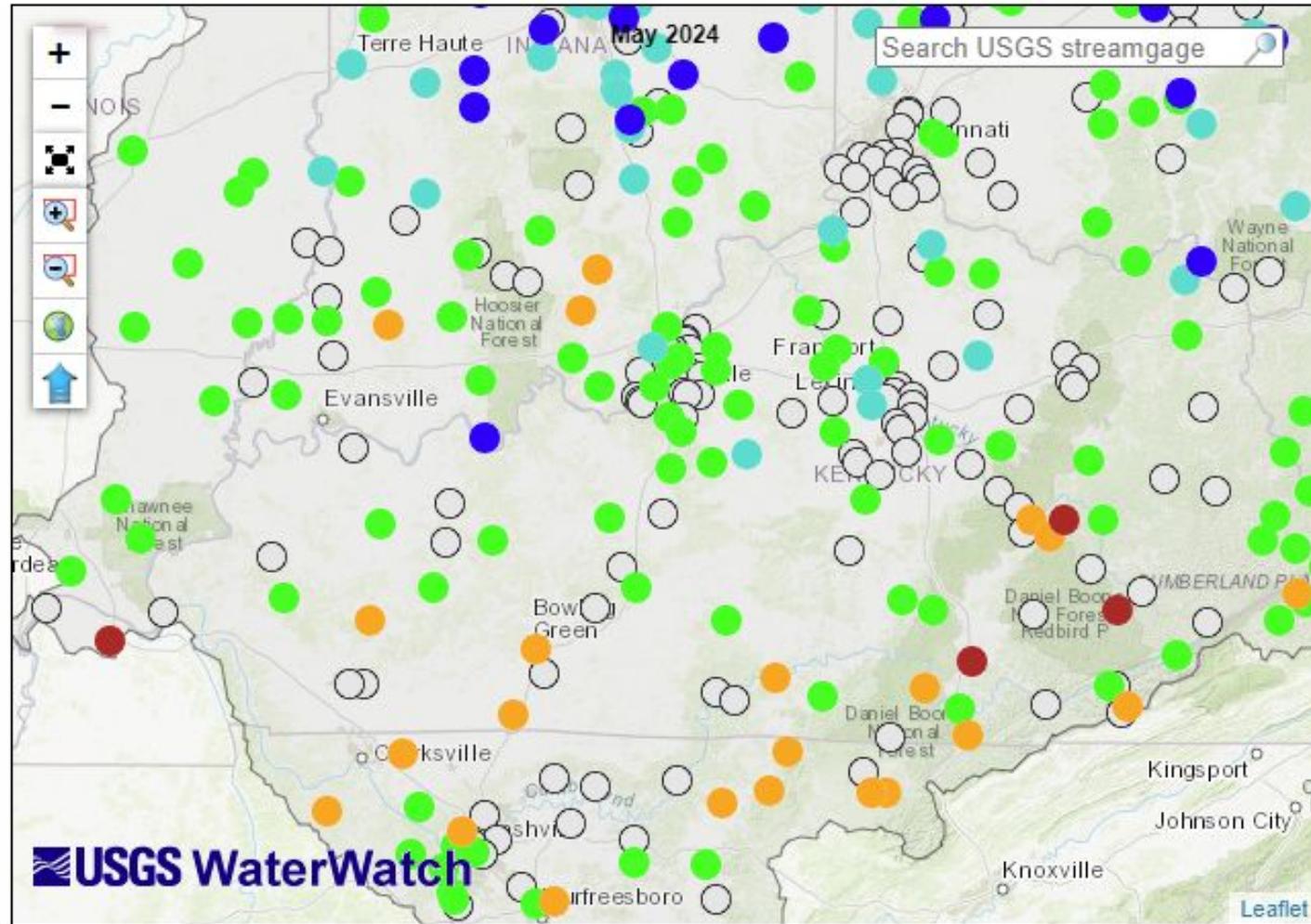


# Monthly Streamflow Anomalies for the Ohio Valley

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May 2024

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



Although streamflows started the month low, widespread rains brought river levels up by the second half of May. Flooding occurred on several streams, including the Green River, late in the month.

Source: [USGS](https://www.usgs.gov/)

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 - May 2024

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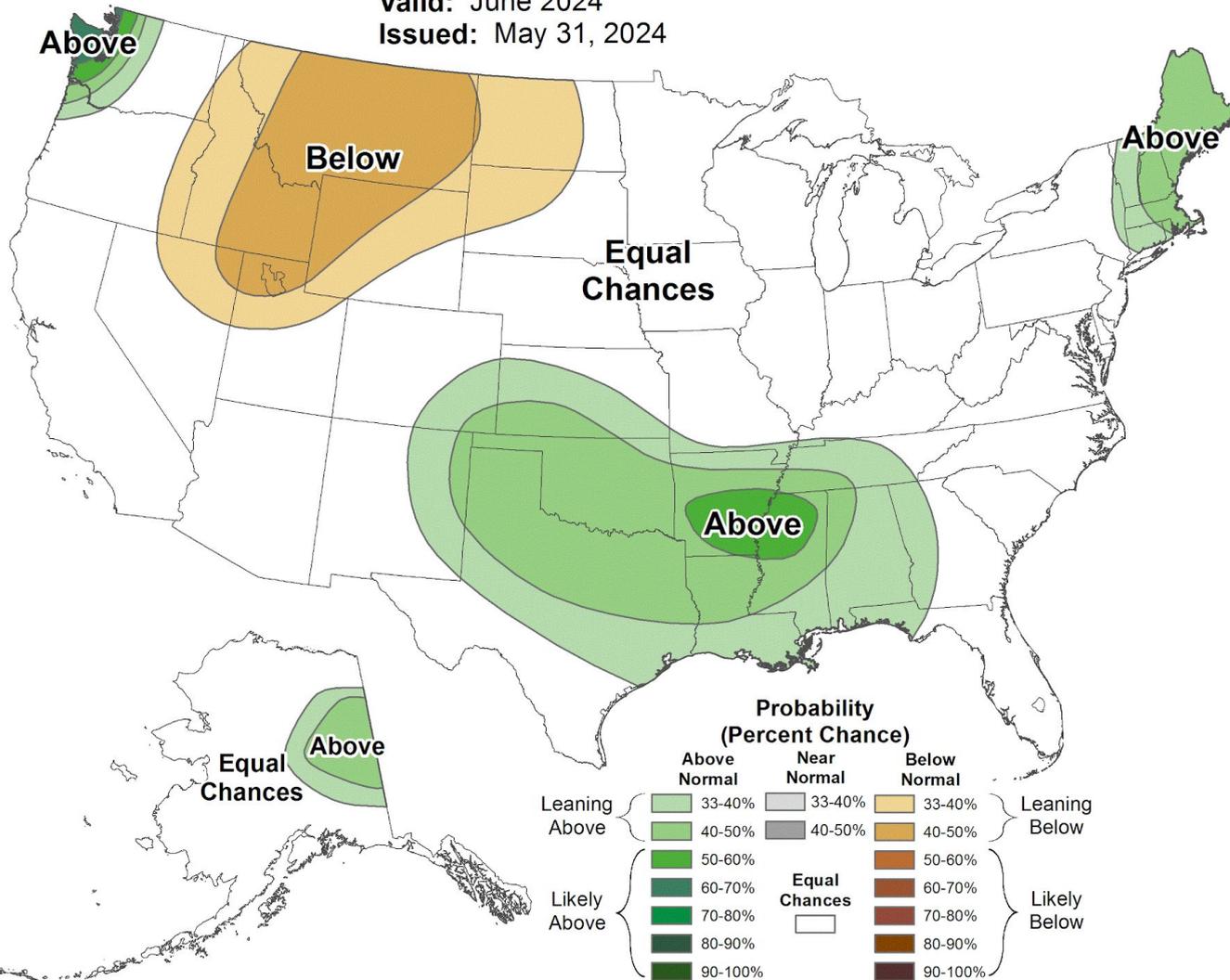
The odds are not tilting in any particular direction for precipitation or temperature in June



## Monthly Precipitation Outlook



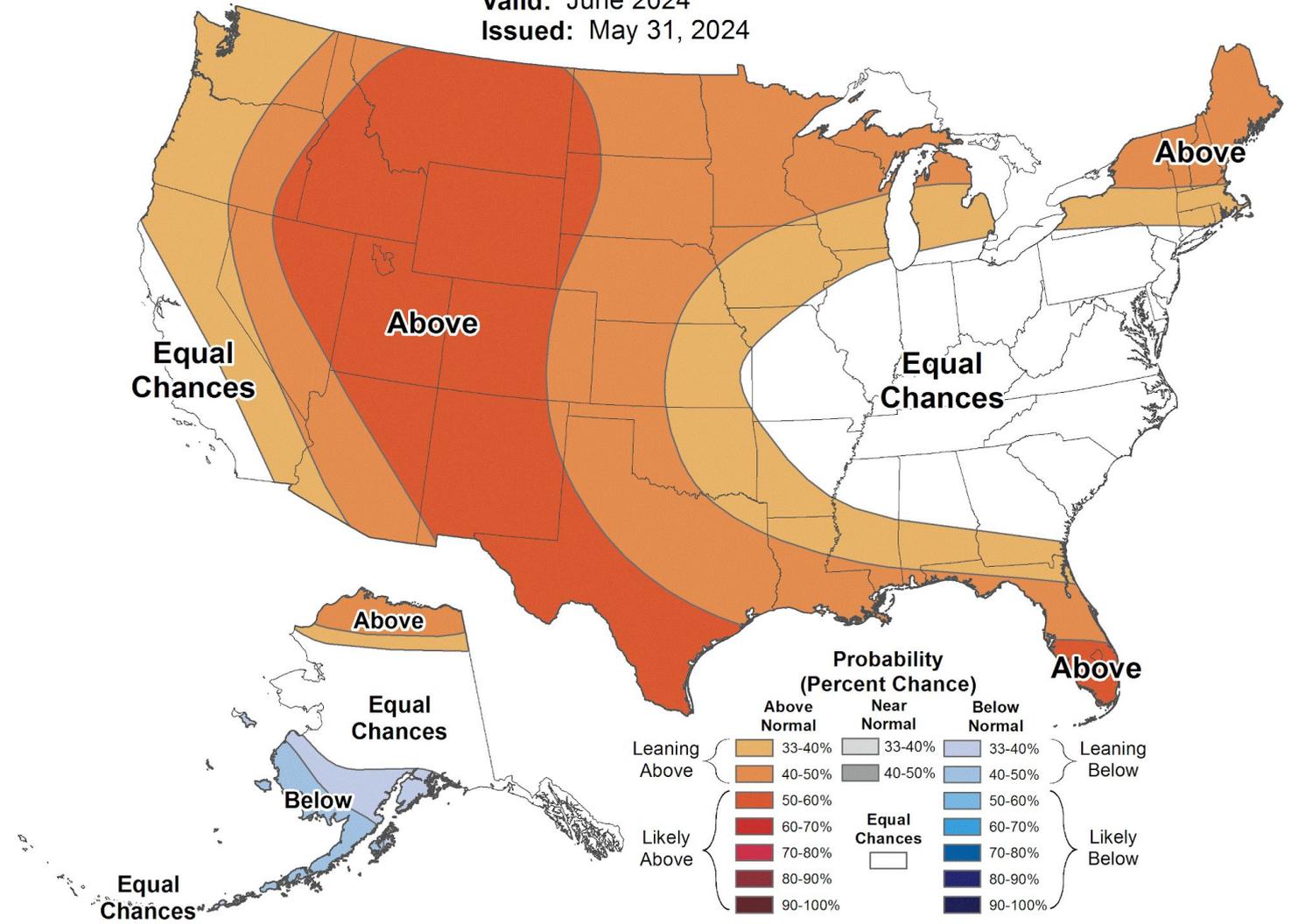
Valid: June 2024  
Issued: May 31, 2024



## Monthly Temperature Outlook



Valid: June 2024  
Issued: May 31, 2024



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

