



March 2025 Monthly Summary

April 13, 2025
12:03 AM

The month started off chilly, with many locations dipping into the teens on the 2nd. However by mid-month warmer weather had enveloped the region, with afternoon readings well into the 70s and even 80s from the 11th to the 15th. As sometimes happens during unusually high temperatures at this time of year, the warmth culminated in a severe weather outbreak. From the [14th into the 15th](#) severe storms were widespread from the Midwest to the Gulf Coast. Here in the Ohio Valley there were many reports of hail, high winds, and even one EF-1 tornado that struck northwest of Paoli in Orange County, Indiana.

The next severe weather event followed quickly on the heels of the previous one, bringing large hail and damaging gusty winds on the 19th.

The next several days were quiet, but that came to a halt on the [30th-31st](#) when a massive wave of damaging winds, large hail, and devastating tornadoes swept from the Great Lakes and Midwest all the way to Gulf and Atlantic coasts. A powerful squall line spun up five tornadoes in north central Kentucky, including an EF-1 in the Fairdale area of Jefferson County, which missed the NWS office by about two and a quarter miles. Another EF-1 stayed on the ground for an amazing 31 miles from Midway in Meade County, across Fort Knox, and into Bullitt County south of Shepherdsville.



Where an EF-1 tornado ripped through a stand of trees in Orange County on the 15th around 4:45 in the morning.



Big hail in Goshen, KY on the 15th.



Hail covering the ground in Sellersburg, IN on the 15th.



31 mile long track of an EF-1 tornado that crossed Fort Knox on the 30th.





Averages, Departures, & Records

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12:03 AM

Station Values

	Average Temperature	Departure from Normal	Precipitation	Departure from Normal	Snow	Departure from Normal
Bowling Green	54.0°	+4.8°	5.23"	+0.69"	T	-1.4"
Frankfort	49.7°	+3.5°	6.11"	+1.39"		
Lexington	51.5°	+5.6°	4.06"	-0.42"	T	-2.8"
Louisville Ali	53.8°	+5.4°	4.57"	-0.03"	T	-2.1"
Louisville Bowman	51.0°	+3.6°	4.53"	+0.16"		

Records

- 12th: High of 78° at Frankfort, high of 79° at Lexington, high of 80° at Louisville
- 14th: High of 82° at Bowling Green, high of 82° at Louisville
- 15th: Precipitation of 3.30" at Bowling Green, precipitation of 2.25" at Louisville
- 28th: High of 83° at Lexington
- 29th: Warm low of 65° at Frankfort, warm low of 67° at Louisville

9th warmest March on record at Lexington and Louisville

Source: [NWS Louisville Climate](#)



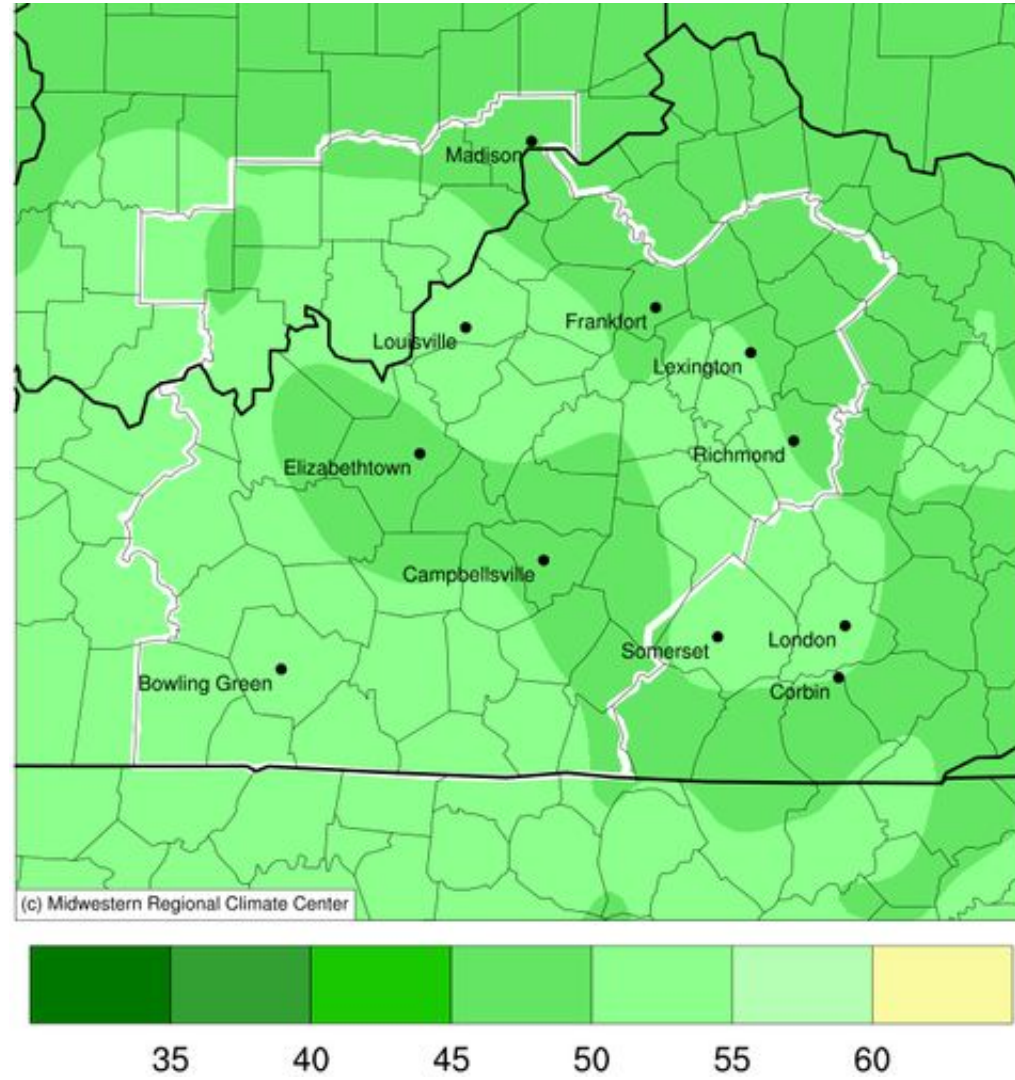


Temperature Maps

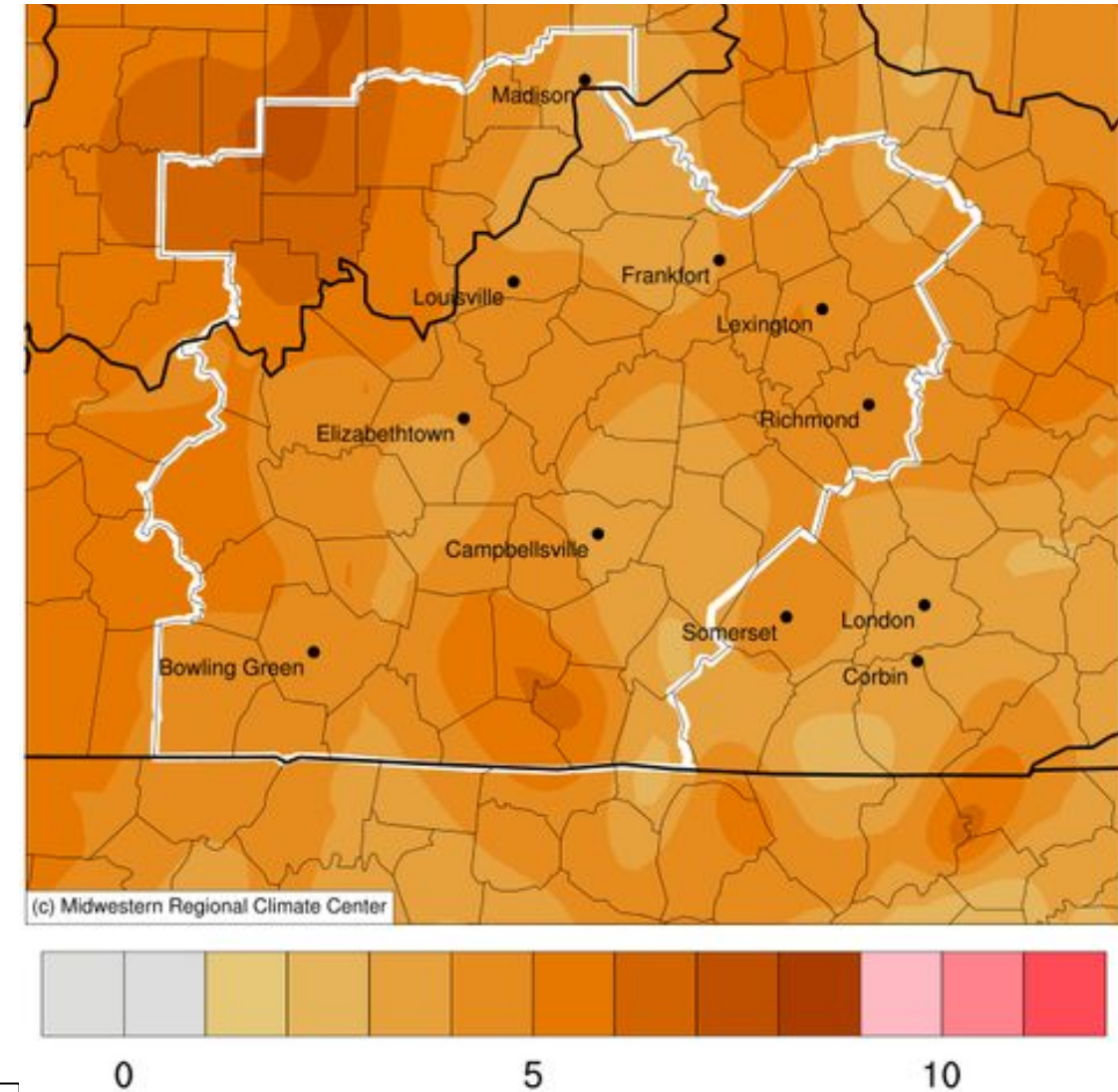
April 13, 2025
12:03 AM

March 1-31, 2025

Average Temperature



Average Temperature Departure from Normal



Source: [MRCC](#)



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Louisville, KY

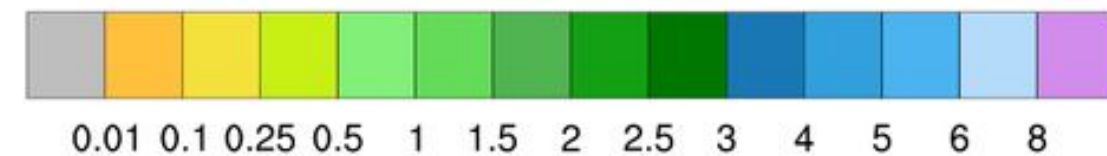
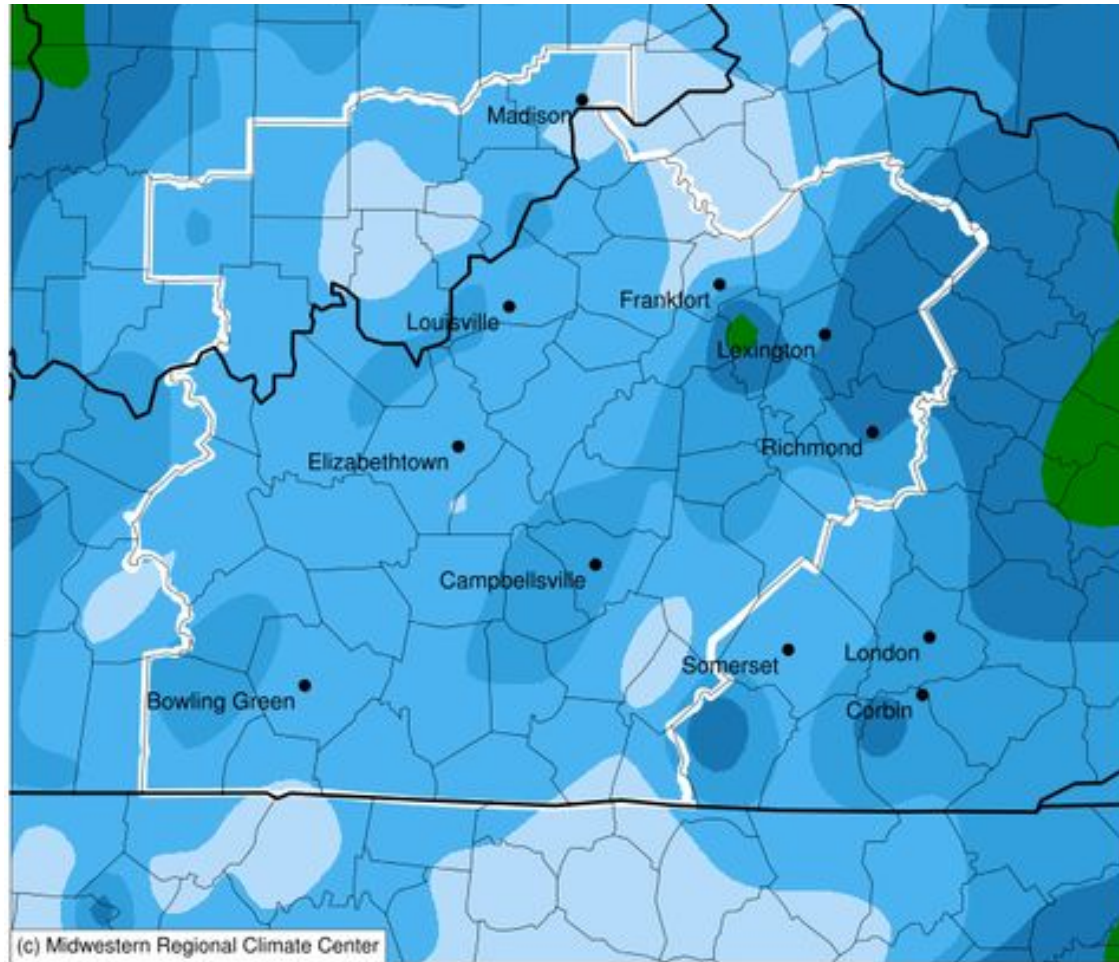


Precipitation Maps

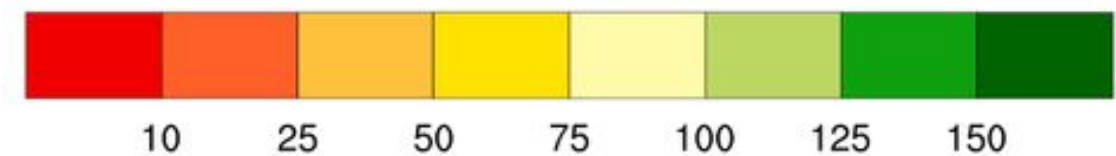
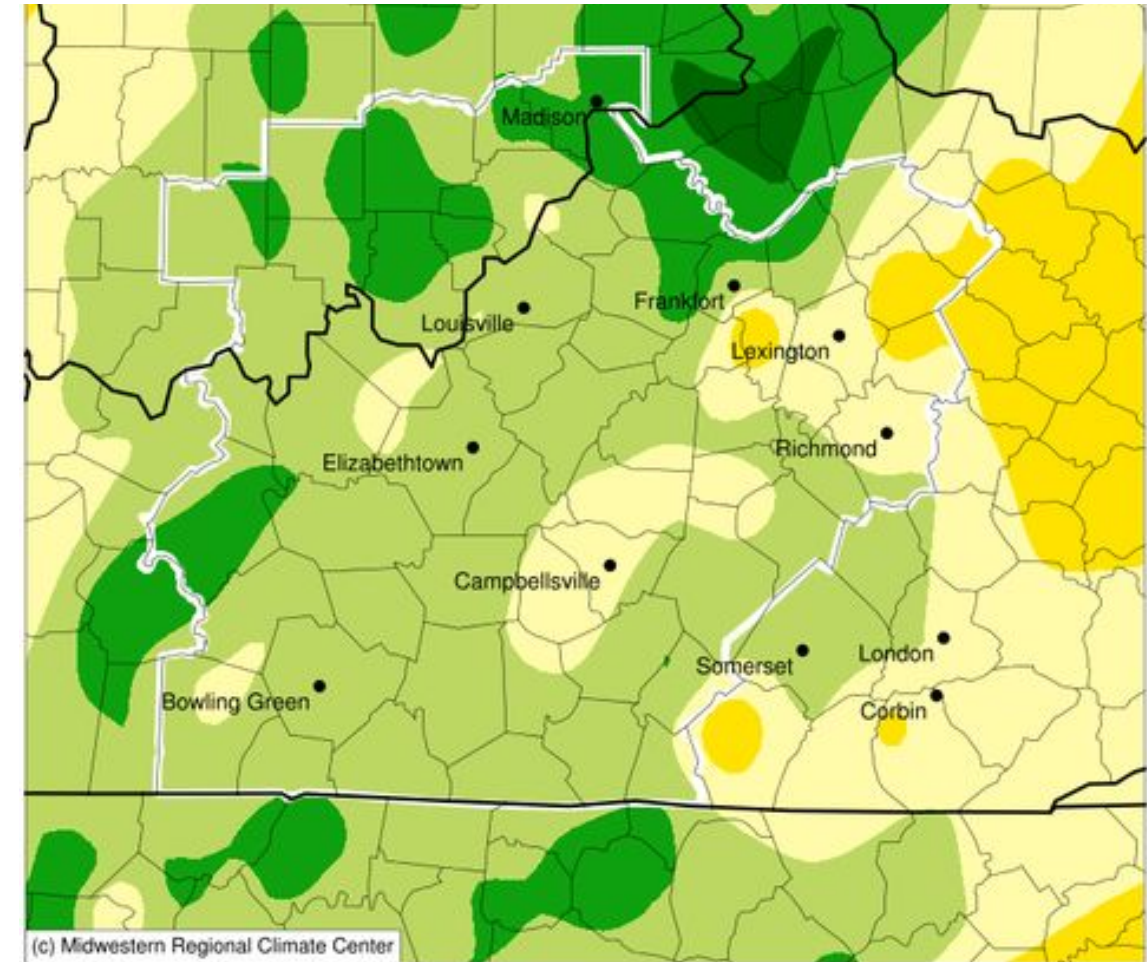
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12:03 AM

March 1-31, 2025

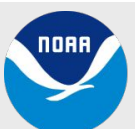
Total Precipitation



Total Precipitation Percentage of Normal



Source: [MRCC](#)



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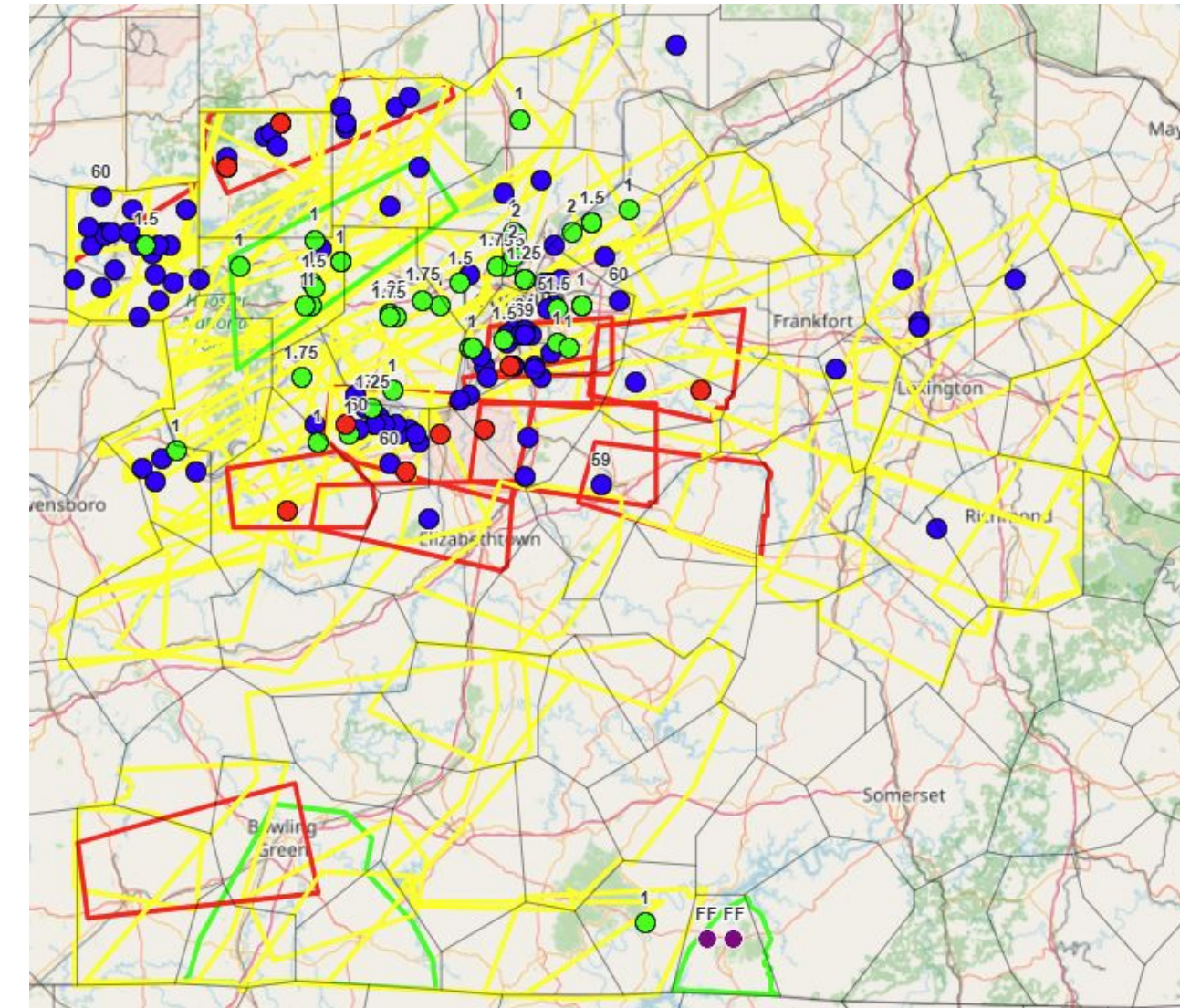


Preliminary Severe Weather Reports

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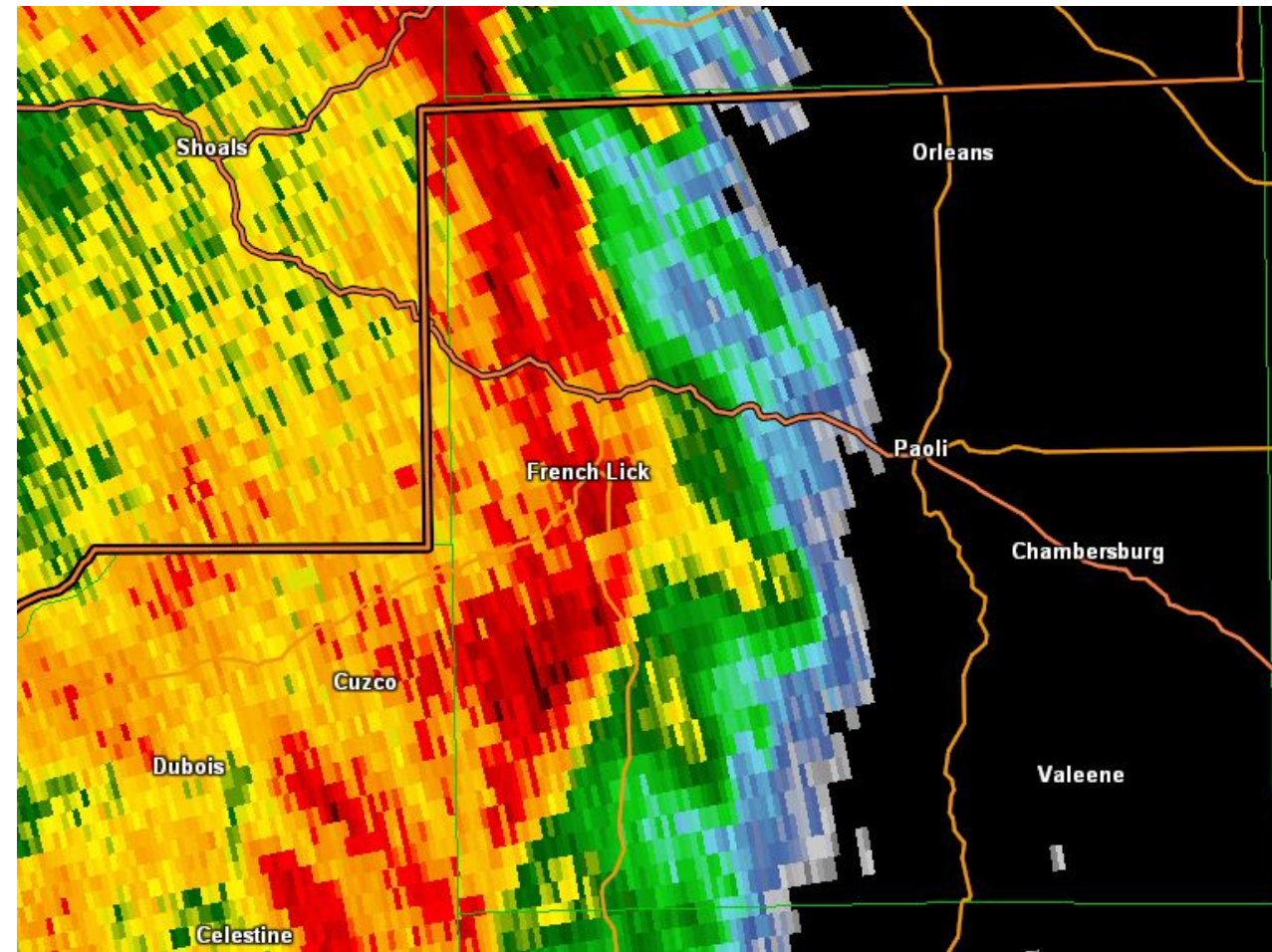
March 2025

Source: [NWS Severe Verification Helper](#)



● Wind ● Hail ● Tornado ● Flash Flood

Almost all of the severe weather in March was concentrated across southern Indiana and north central Kentucky. The two biggest events, on the 14th-15th and 30th-31st, were severe weather outbreaks that took place overnight. Of the month's six tornadoes, five of them occurred between 9pm and 11pm, with the 6th one occurring shortly before 5 o'clock in the morning. It is very important to have ways to receive warnings while you're asleep!



Line of storms that brought an EF-1 tornado to northwestern Orange County on the 15th.



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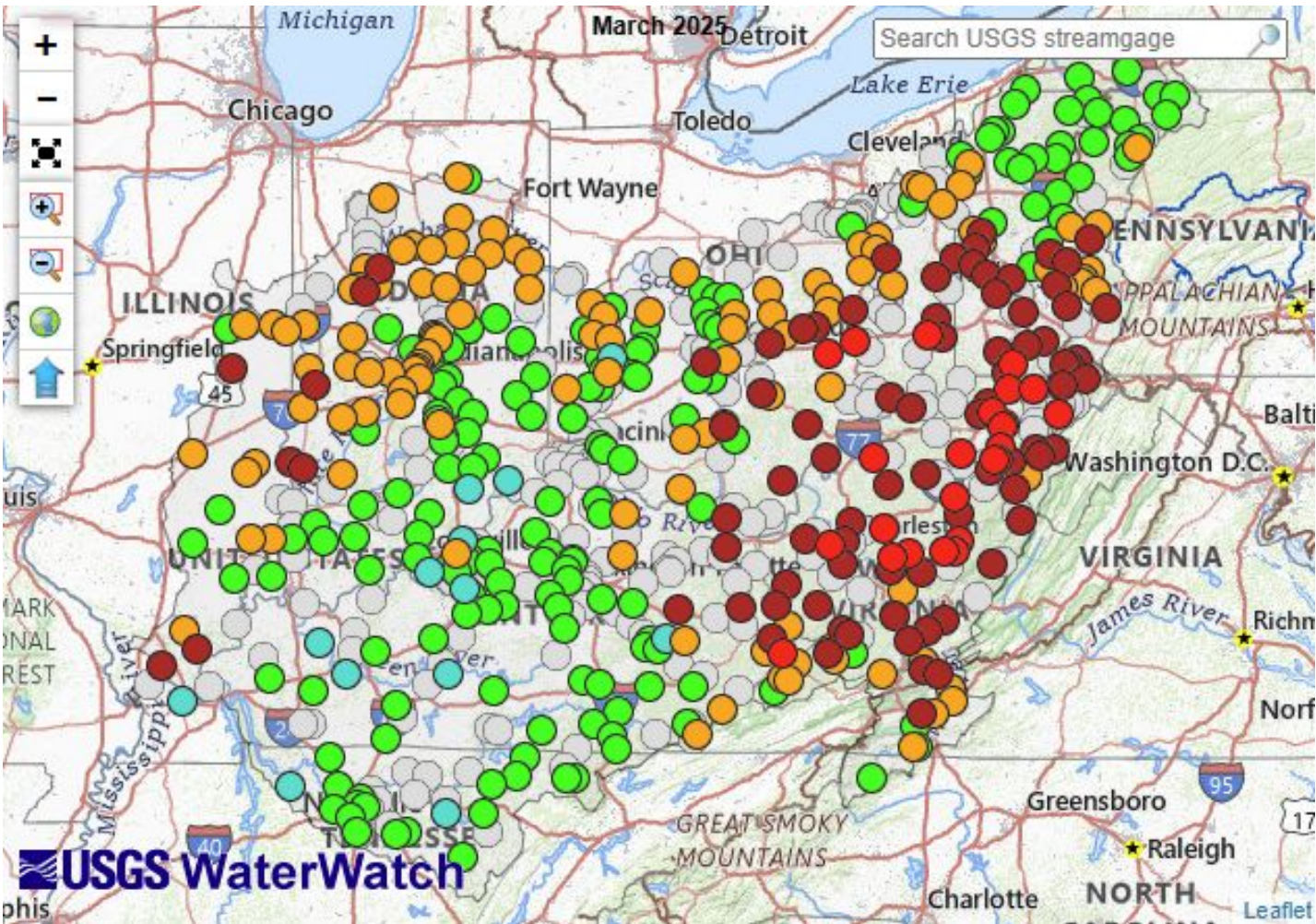
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Monthly Streamflow Anomalies for the Ohio Valley

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March 2025



After significant flooding in mid-February, streamflows returned to normal in March across southern Indiana and central Kentucky. Not far away, in West Virginia and Ohio, streams fell well below normal.

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

Source: [USGS](#)





CPC Monthly Outlook - April 2025

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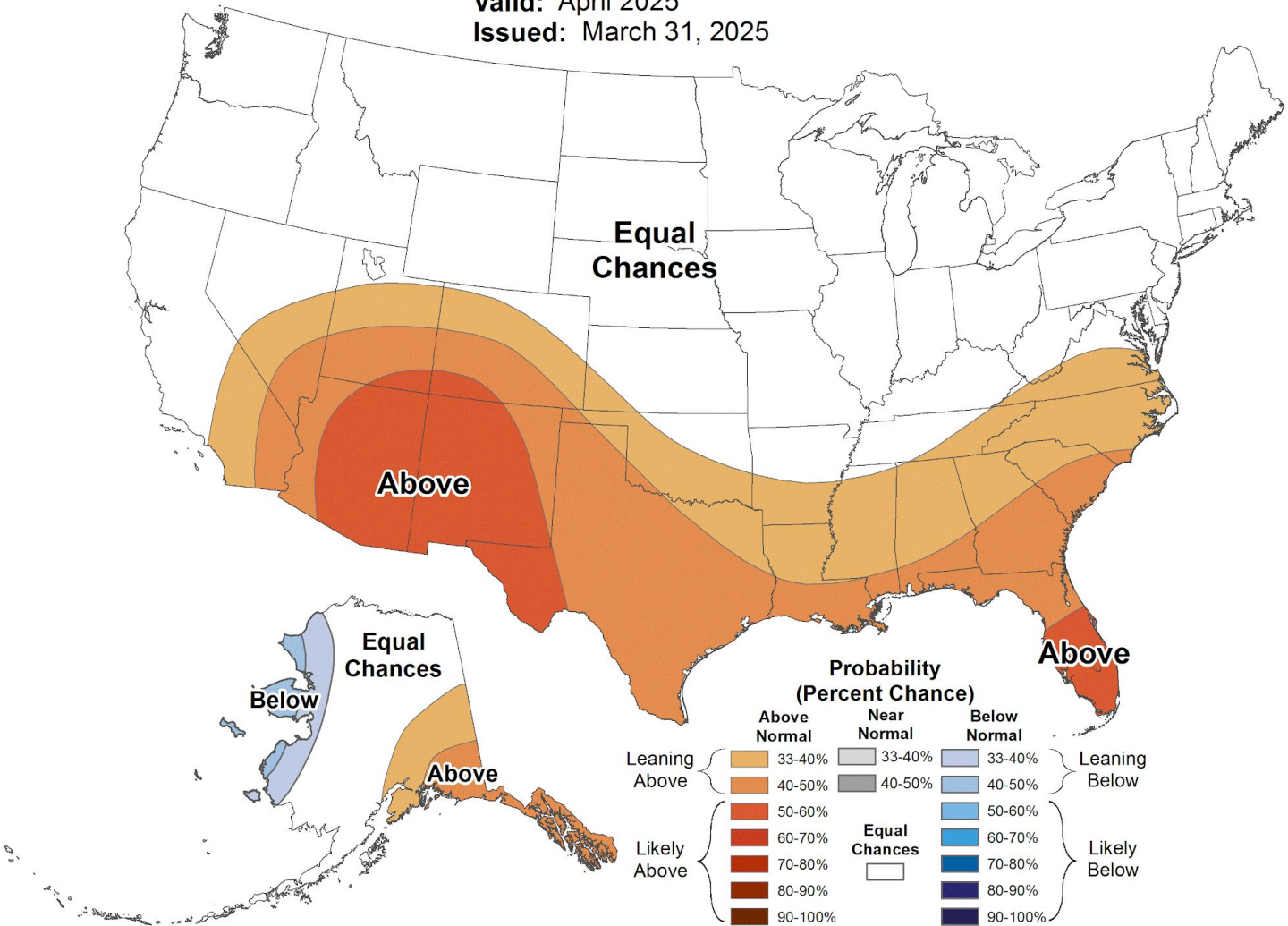
Several storm systems are expected to take a path through the mid-Mississippi and Ohio Valleys



Monthly Temperature Outlook



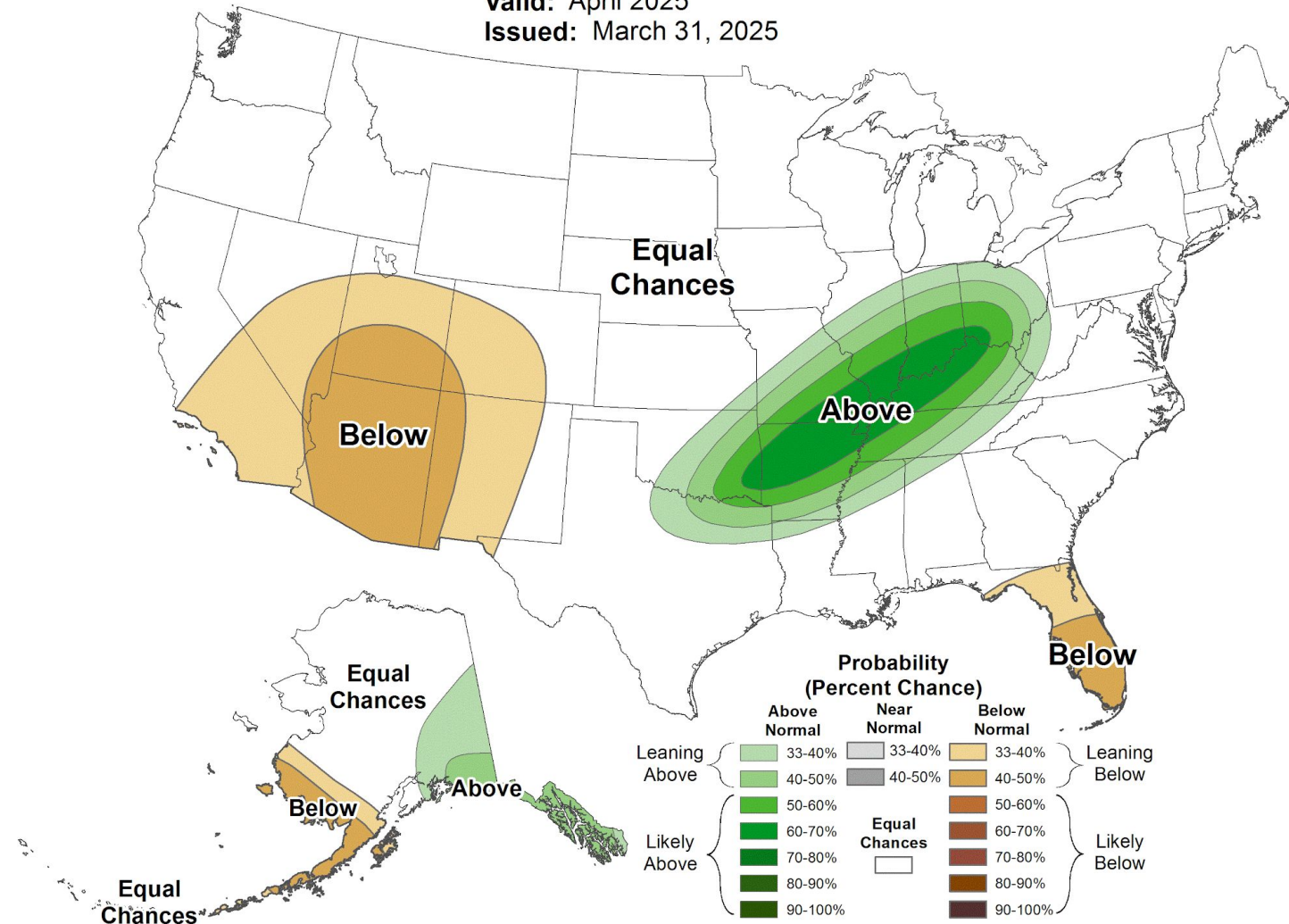
Valid: April 2025
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Monthly Precipitation Outlook



Valid: April 2025
Issued: March 31, 2025



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

