

Autumn 2024 Seasonal Summary

December 3, 2024
4:02 PM

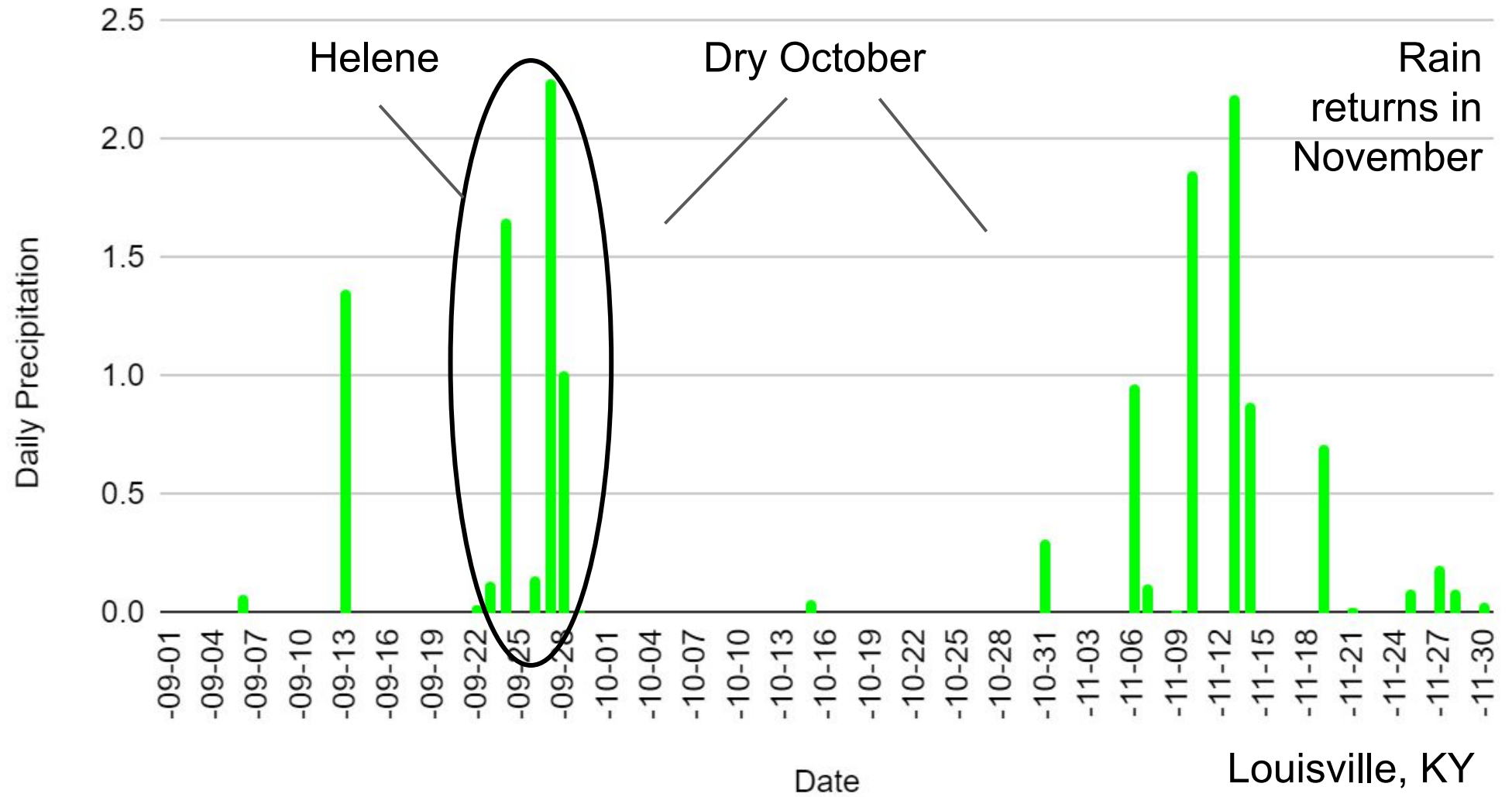
A Very Warm Autumn; Big Swings in Precipitation

The season started off warm and very dry, with parts of the Kentucky River valley experiencing Extreme Drought (level 3 out of 4 on the [U.S. Drought Monitor](#)). Then, the remnants of Hurricane Helene brought gusty winds and 3-5 inches of soaking rain to the region around the last weekend of September, bringing an end to the drought.

And it was a good thing, too. Dry weather returned to the Ohio Valley after Helene's rain. Louisville and Bowling Green received rainfall on only two days in October. It would have been Bowling Green's wettest *month* on record if it weren't for a cold front that brought Halloween showers to central Kentucky and southern Indiana. Had it not been for Helene, the region would have been in a very serious drought situation by the end of October.

After the parched October, rains were common in November, with Louisville experiencing their 8th wettest November on record on the heels of the city's 5th driest October.

September 1 - November 30 Daily Precipitation





Averages, Departures, & Records

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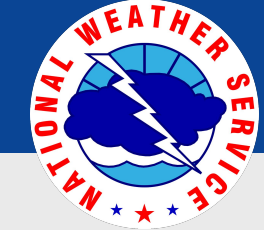
Station Values

	Average Temperature	Departure from Normal	Precipitation	Departure from Normal	Snow	Departure from Normal
Bowling Green	63.8°	+3.9°	10.25"	-0.75"	T	-0.1"
Frankfort	60.7°	+3.1°	9.95"	-0.40"		
Lexington	61.7°	+4.0°	10.90"	+0.45"	1.7"	+1.3"
Louisville Ali	64.1°	+3.8°	14.27"	+3.47"	0.6"	+0.2
Louisville Bowman	60.9°	+2.1°	15.78"	+5.08"		

4th warmest autumn on record at Bowling Green and Lexington
 6th warmest autumn on record at Frankfort
 2nd warmest autumn on record at Louisville

Source: [NWS Louisville Climate](#)



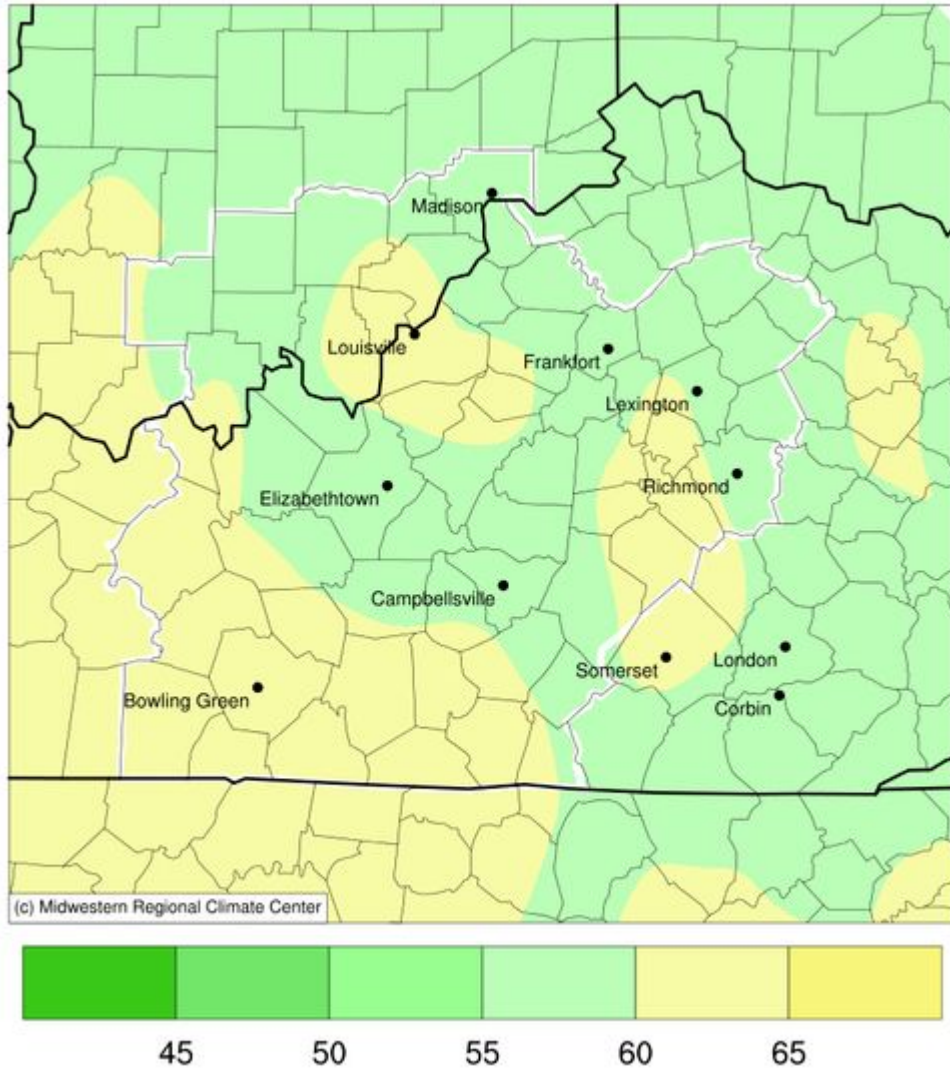


Temperature Maps

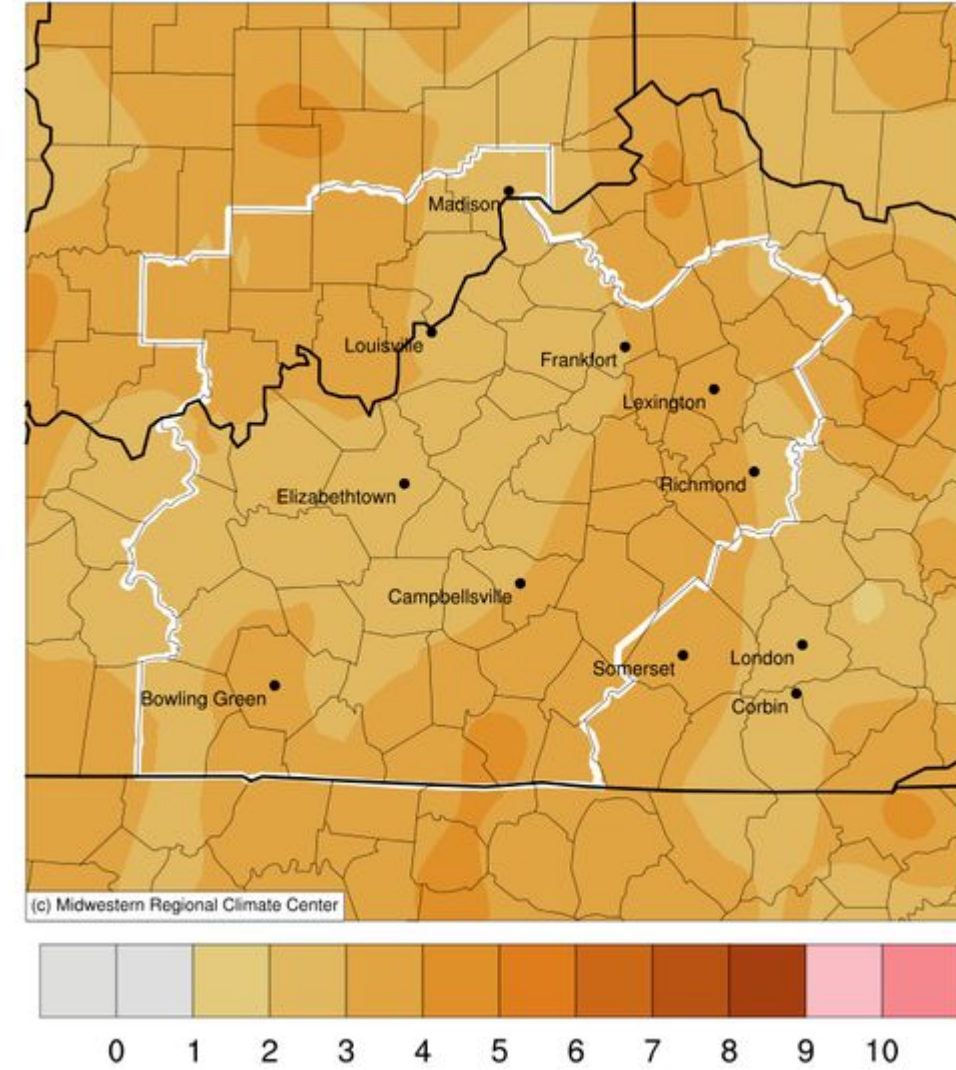
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One of our warmest autumns on record

Average Temperature

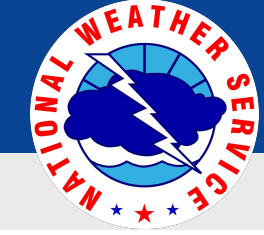


Average Temperature Departure from Normal



Source: [MRCC](#)



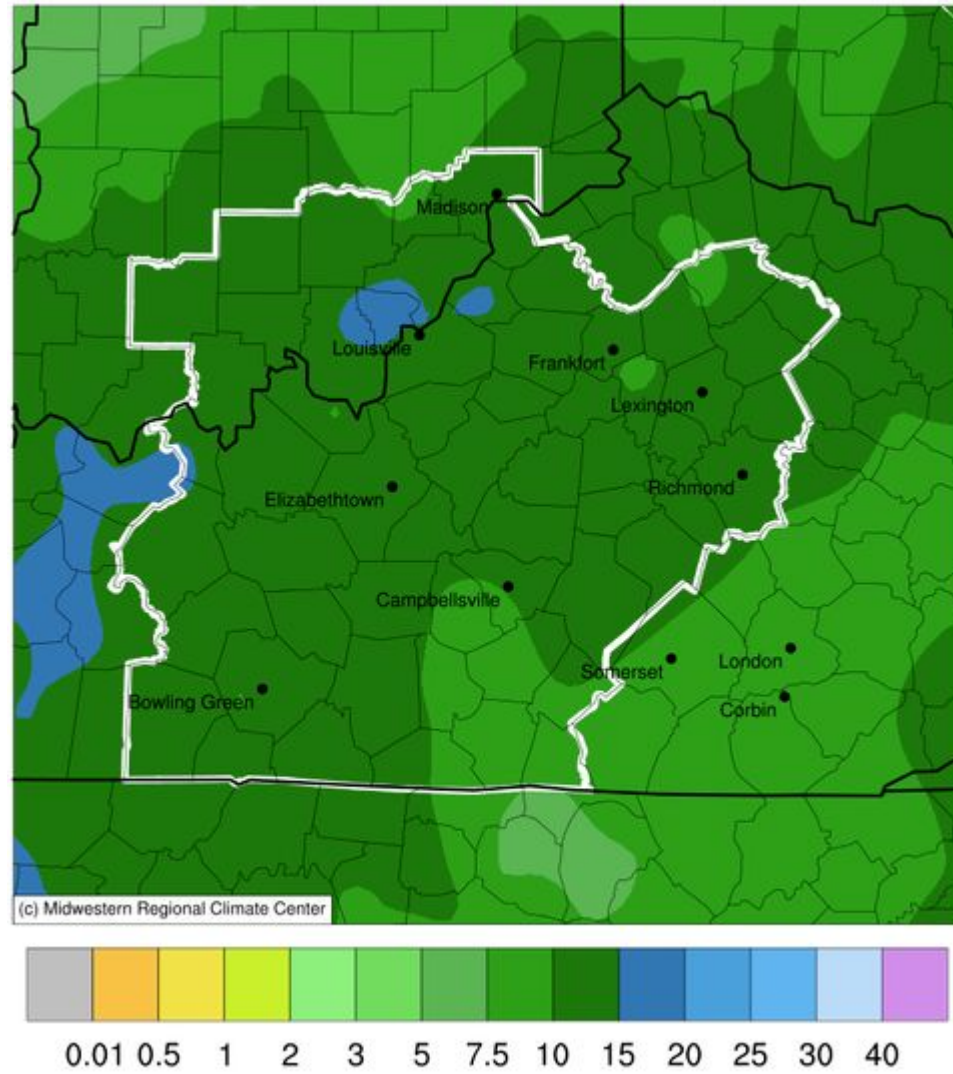


Precipitation Maps

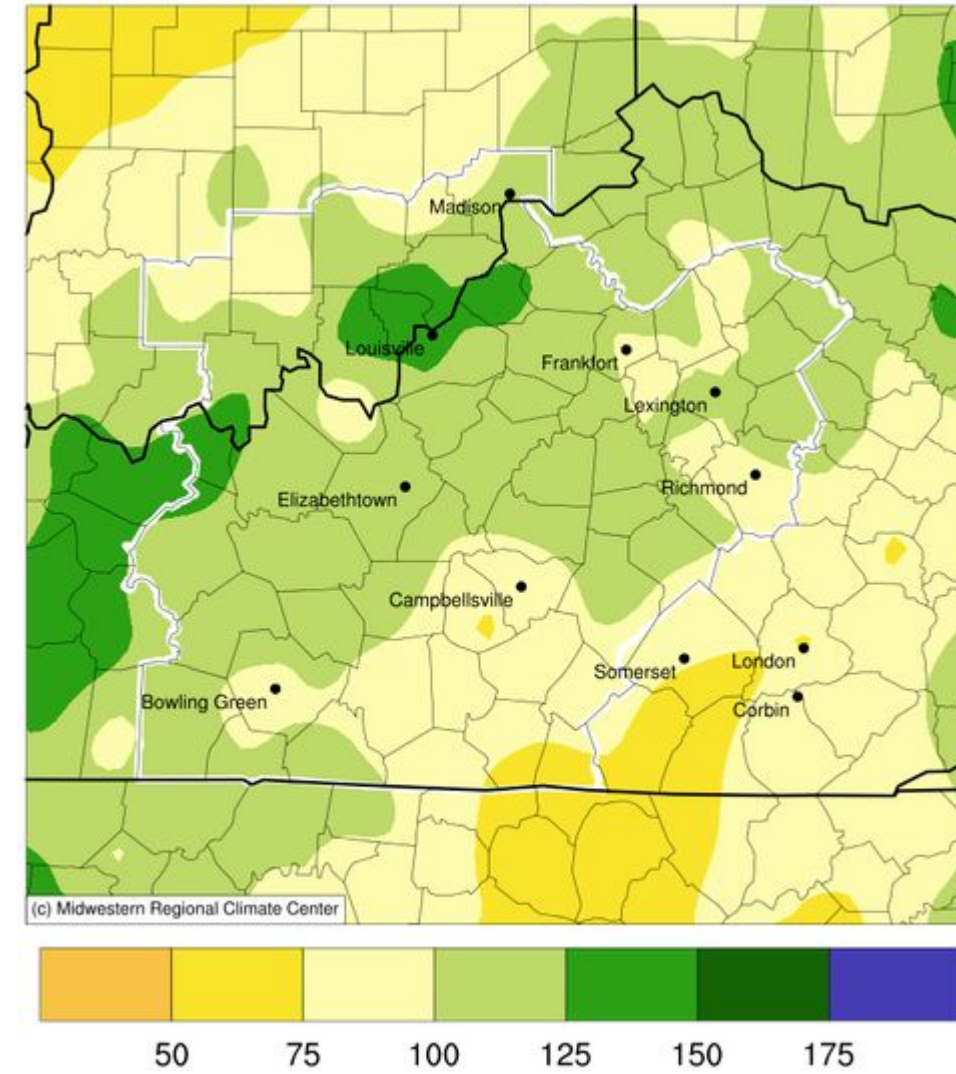
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Very dry October balanced out by wet September and November

Total Precipitation

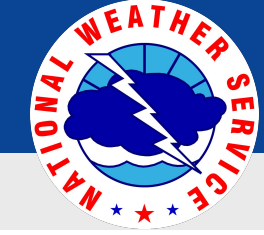


Total Precipitation Percentage of Normal



Source: [MRCC](#)

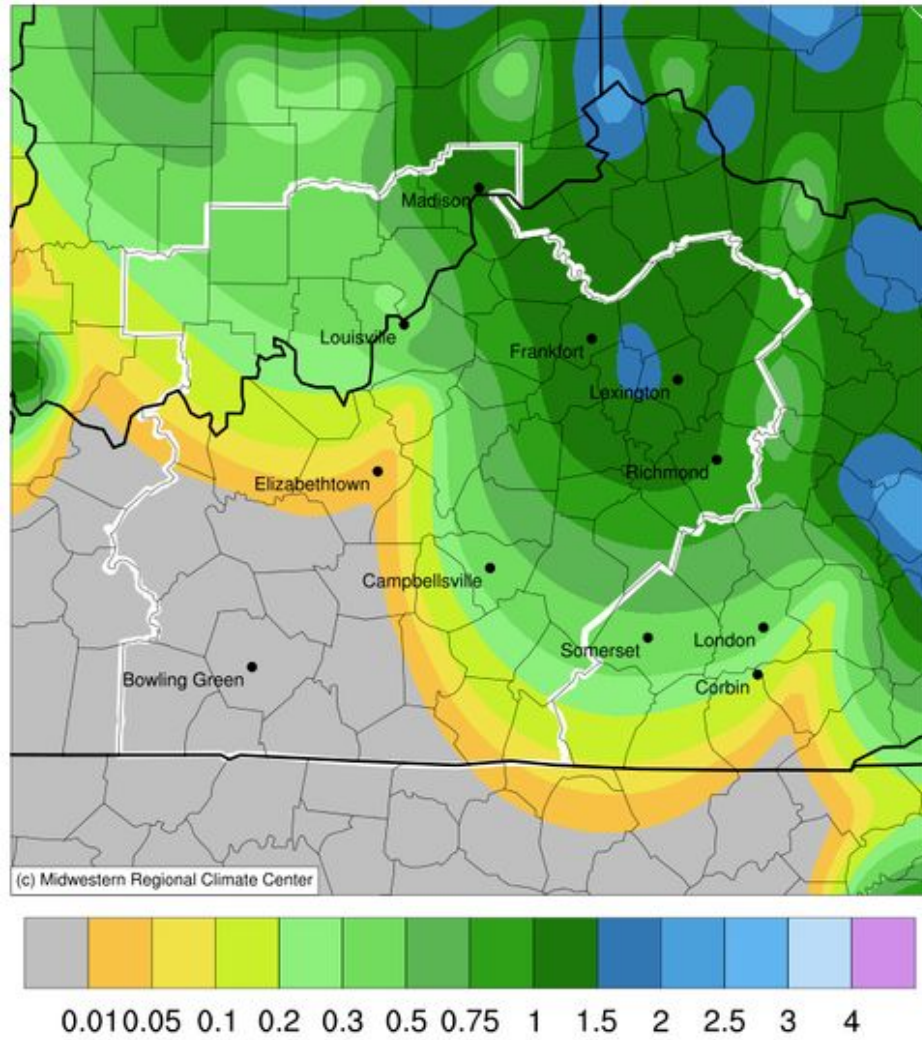




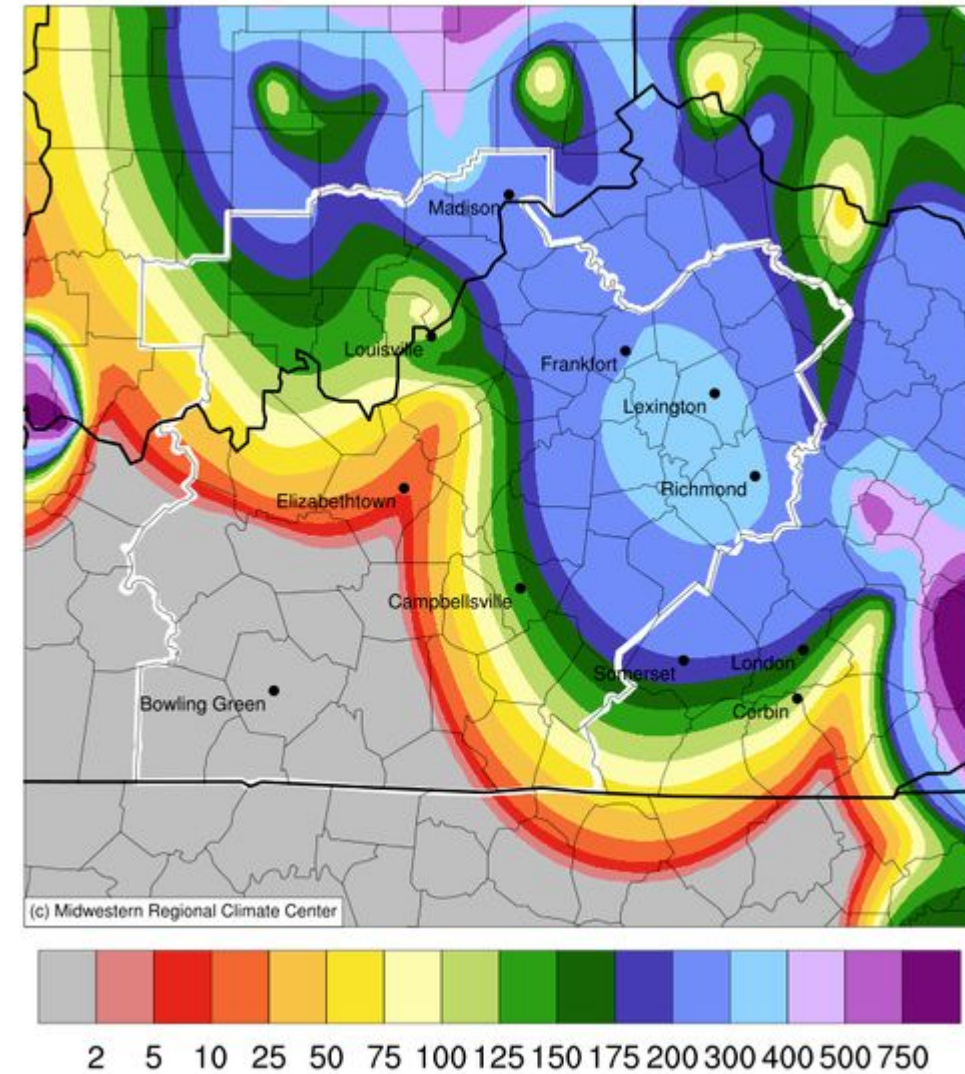
Snowfall Maps

December 3, 2024
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Total Snowfall

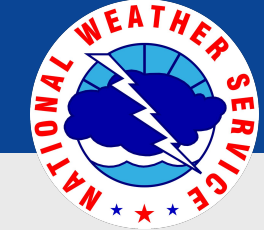


Total Snowfall Percentage of Normal



Source: [MRCC](#)

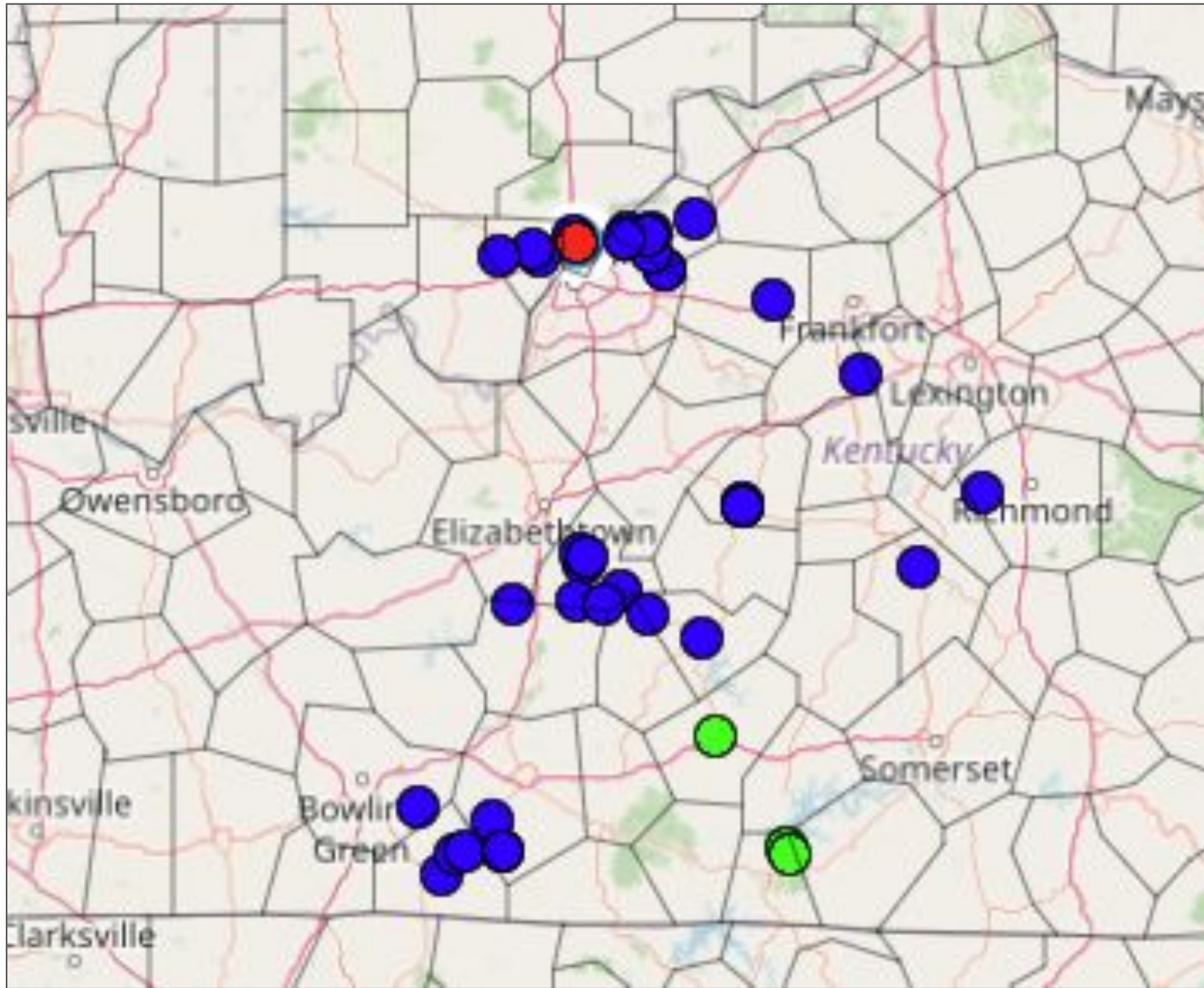




Preliminary Severe Weather Reports

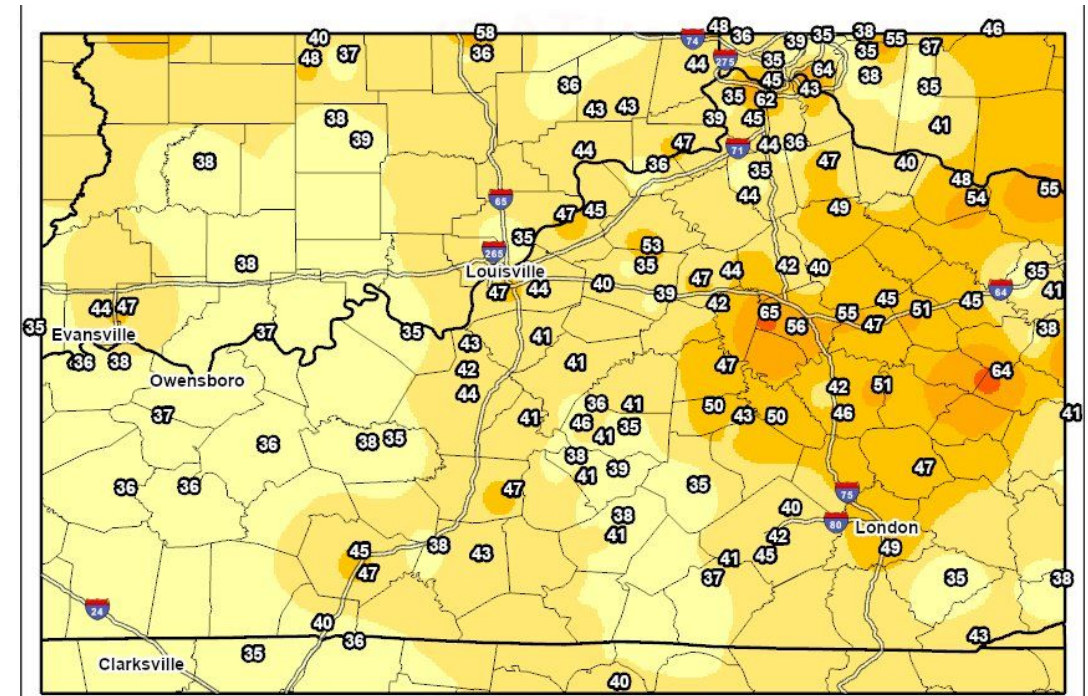
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September 1 - November 30, 2024



The only significant severe weather event of the season occurred on the 24th of September as low pressure traveling from Illinois to Michigan pulled a cold front through the Ohio Valley. Severe weather was reported from southern Michigan to the lower Mississippi Valley and southern Appalachians. A small tornado produced EF-0 damage from Cementville to Prather in southern Clark County, Indiana. Golf ball sized hail fell from a severe storm in northern Clinton County, Kentucky.

On September 27 the remnants of Hurricane Helene entered Kentucky and brought powerful wind gusts (see map below) and heavy rain. NWS Louisville received many reports of tree damage, and power outages were widespread. Antecedent drought conditions prevented flooding from occurring despite 3-5" of rain drenching the region.



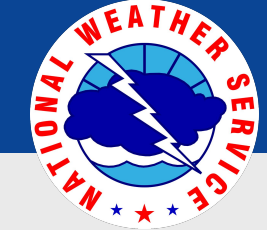
● Wind ● Hail ● Tornado ● Flash Flood

Source: [NWS Severe Verification Helper](#)



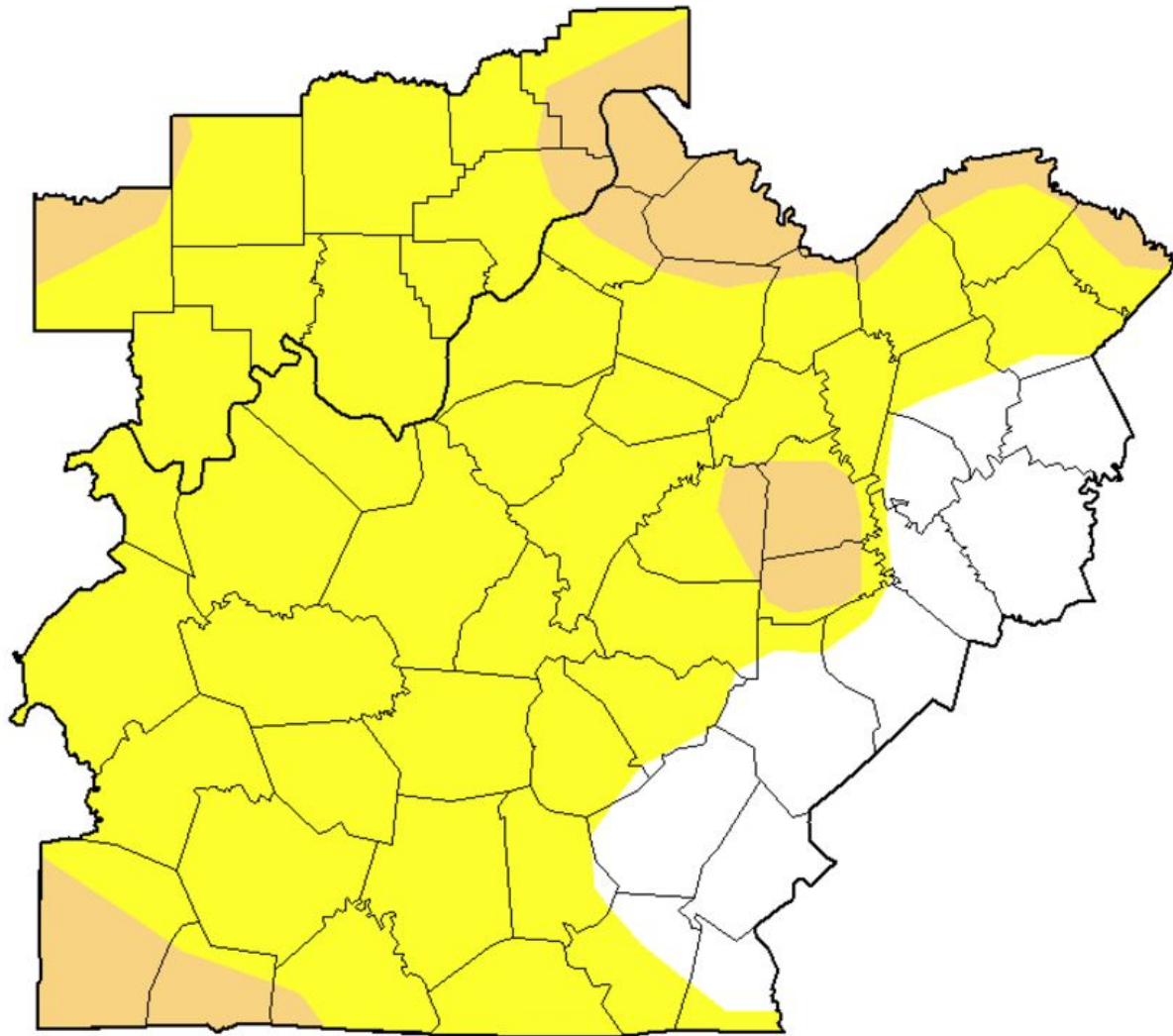
National Oceanic and Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Louisville, KY

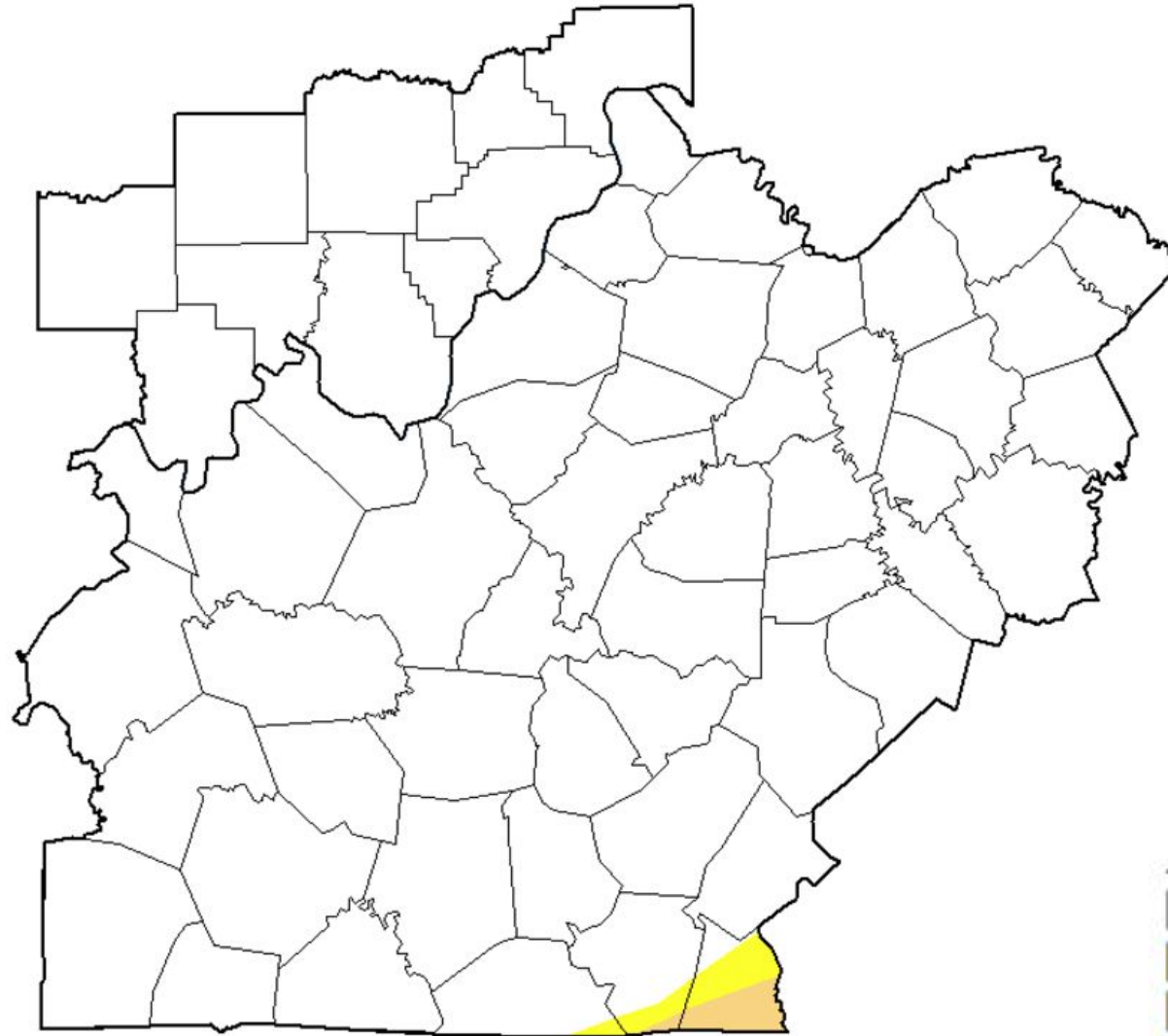


U.S. Drought Monitor Maps

December 3, 2024
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




September 3, 2024



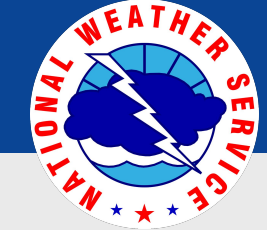
November 26, 2024

Intensity:

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

Source: [USDM](#)



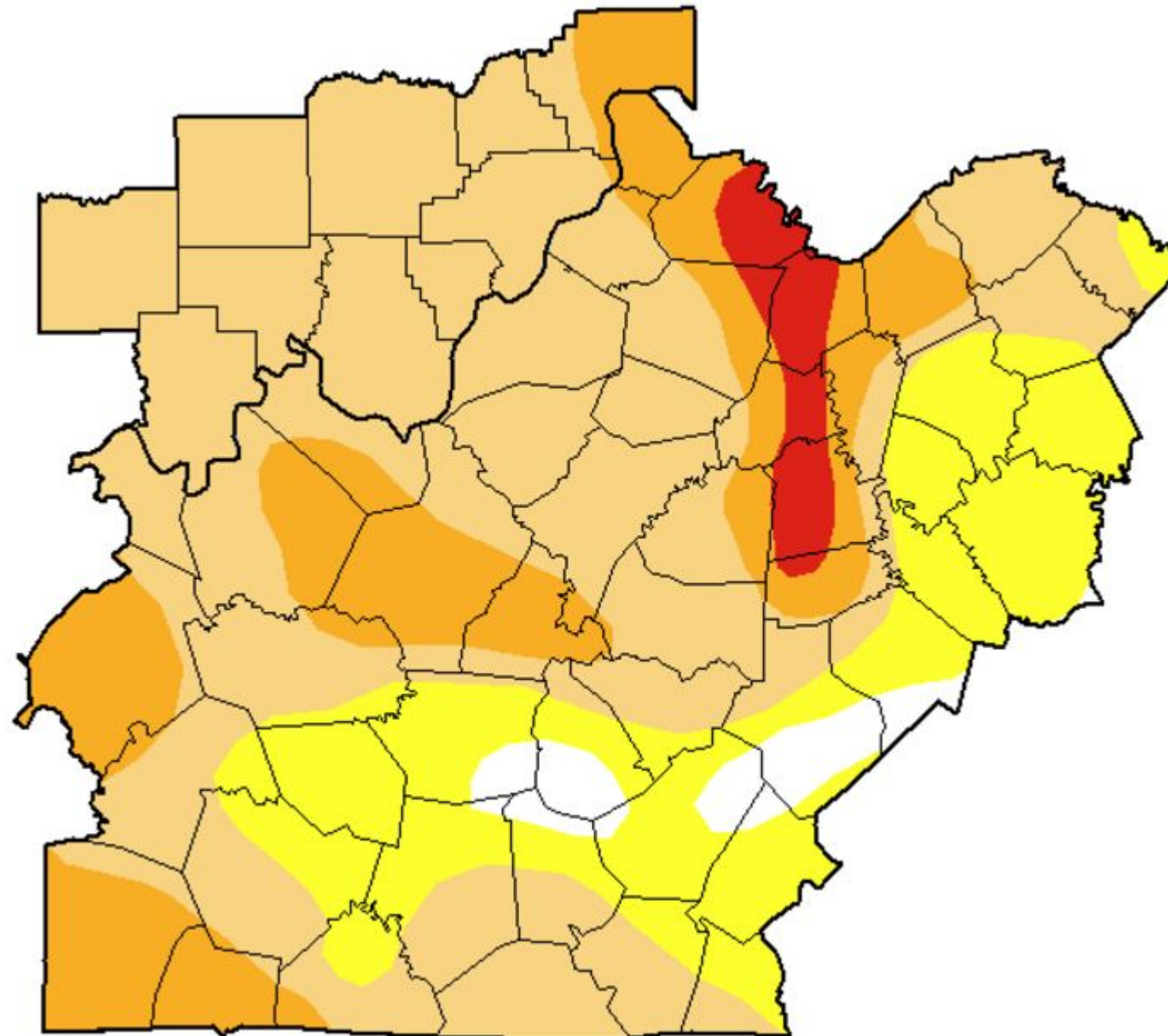


U.S. Drought Monitor Maps







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Peak of fall dryness, just before Helene's remnants soaked the region

September 24, 2024

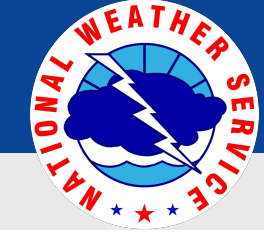


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Source: [USDM](#)





CPC Seasonal Outlook - Winter 2024-25

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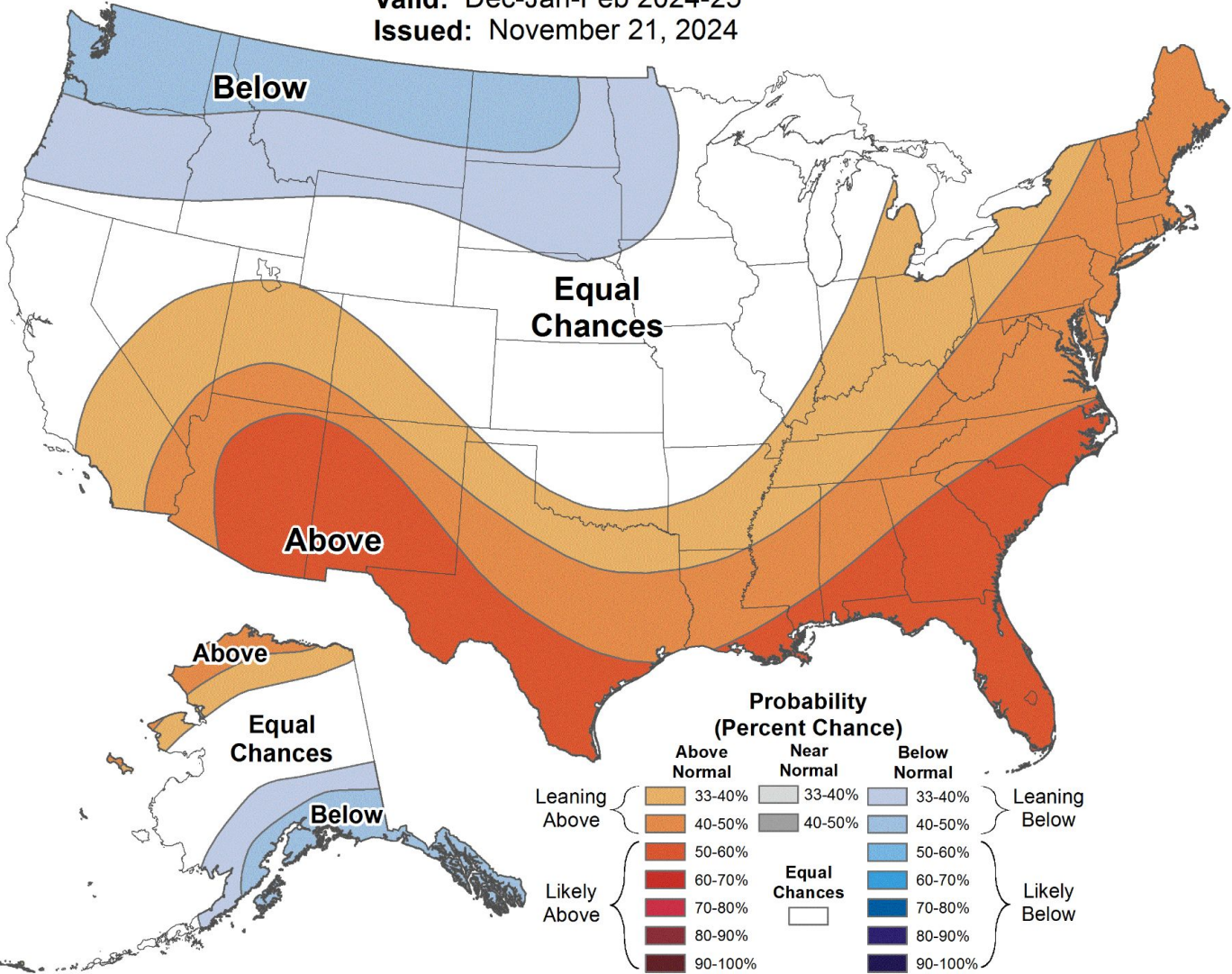
The odds favor warmer than normal temperatures and a slight lean toward higher than normal precipitation.



Seasonal Temperature Outlook



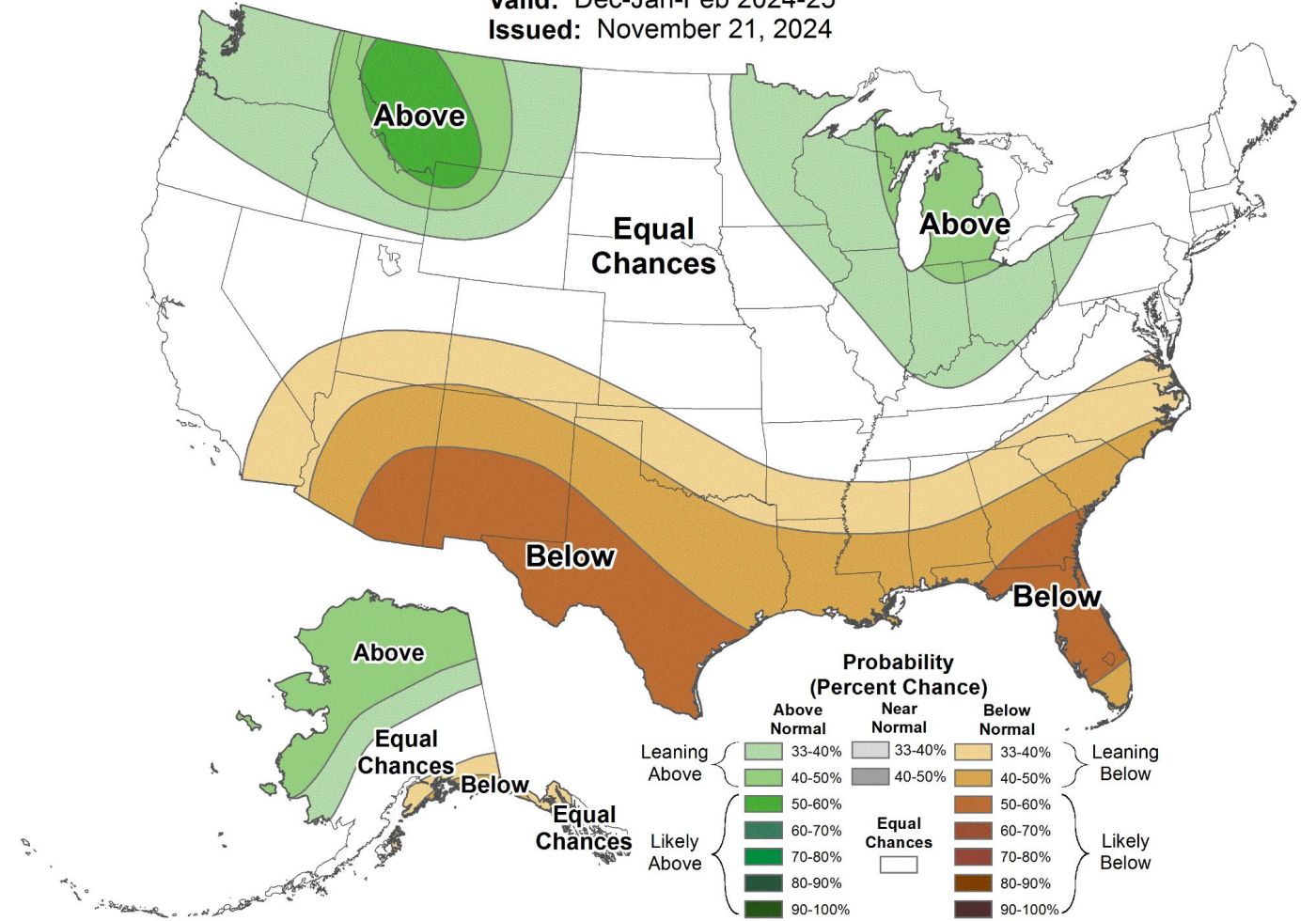
Valid: Dec-Jan-Feb 2024-25
Issued: November 21, 2024



Seasonal Precipitation Outlook



Valid: Dec-Jan-Feb 2024-25
Issued: November 21, 2024



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

